Modelling the occurrence of anomalous chemical diffusion in natural porous media: Supporting information

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Contents

1 Time Kernels 1

2 Full anomalous diffusion solutions for selected β values 3

3 Flux solutions 15

4 The stability terms 25

1. Time Kernels

The time-kernel $\mathscr{E}_\beta$ can be mathematically represented as:

$$\mathscr{E}_\beta = \frac{1}{s}\sum_{n=0}^{\infty}\frac{(-1)^n}{n!\Gamma(1-\beta-\beta n)}\left(\frac{s}{\kappa_\beta t^\beta}\right)^{1+n} \qquad \textbf{(K-1)}$$

In the main manuscript, $\mathscr{E}_\beta$ for β=1/2 was introduced in eqn (**7**) respectively. Here we present the series form of other seven $\mathscr{E}_\beta$s for β= $\frac{4}{5}$, $\frac{3}{4}$, $\frac{2}{3}$, $\frac{2}{5}$, $\frac{1}{3}$, $\frac{1}{5}$, and $\frac{1}{9}$ in eqn (**S-1**) to eqn (**S7**) respectively.

$$\mathscr{E}_{\frac{4}{5}}(s,t) = \frac{1}{(D_\beta t)^{4/5}}\left(\frac{{}_3F_3\left(\frac{9}{20},\frac{7}{10},\frac{19}{20};\frac{2}{5},\frac{3}{5},\frac{4}{5};-\frac{256s^5}{3125(D_\beta t)^4}\right)}{\Gamma\left(\frac{1}{5}\right)} - \frac{s\,{}_3F_3\left(\frac{13}{20},\frac{9}{10},\frac{23}{20};\frac{3}{5},\frac{4}{5},\frac{6}{5};-\frac{256s^5}{3125(D_\beta t)^4}\right)}{(D_\beta t)^{4/5}\Gamma\left(-\frac{3}{5}\right)} + \frac{s^3\,{}_3F_3\left(\frac{21}{20},\frac{13}{10},\frac{31}{20};\frac{6}{5},\frac{7}{5},\frac{8}{5};-\frac{256s^5}{3125(D_\beta t)^4}\right)}{6(D_\beta t)^{12/5}\Gamma\left(-\frac{11}{5}\right)}\right) \tag{S-1}$$

$$\mathscr{E}_{\frac{3}{4}}(s,t) = \frac{1}{(D_\beta t)^{3/4}}\left(\frac{{}_2F_2\left(\frac{7}{12},\frac{11}{12};\frac{1}{2},\frac{3}{4};-\frac{27s^4}{256(D_\beta t)^3}\right)}{\Gamma\left(\frac{1}{4}\right)} + \frac{s\,{}_2F_2\left(\frac{5}{6},\frac{7}{6};\frac{3}{4},\frac{5}{4};-\frac{27s^4}{256(D_\beta t)^3}\right)}{2\sqrt{\pi}(D_\beta t)^{3/4}} + \frac{s^2\,{}_2F_2\left(\frac{13}{12},\frac{17}{12};\frac{5}{4},\frac{3}{2};-\frac{27s^4}{256(D_\beta t)^3}\right)}{2(D_\beta t)^{3/2}\Gamma\left(-\frac{5}{4}\right)}\right) \tag{S-2}$$

$$\mathscr{E}_{\frac{2}{3}}(s,t) = \frac{e^{-\frac{2s^3}{27(D_\beta t)^2}}\left(\frac{2\sqrt{3}s^9\,\mathrm{Ai}\left(\frac{s^2}{3\sqrt[3]{3}(D_\beta t)^{4/3}}\right)}{(D_\beta t)^{2/3}} - 6\sqrt[6]{3}s^8\,\mathrm{Ai}'\left(\frac{s^2}{3\sqrt[3]{3}(D_\beta t)^{4/3}}\right)\right)}{\left(2\ 3^{5/6}s^8\right)(D_\beta t)^{2/3}} \tag{S-3}$$

$$\mathscr{E}_{\frac{2}{5}}(s,t) = \frac{1}{(D_\beta t)^{2/5}}\left(\frac{{}_1F_3\left(\frac{7}{10};\frac{2}{5},\frac{3}{5},\frac{4}{5};-\frac{4s^5}{3125(D_\beta t)^2}\right)}{\Gamma\left(\frac{3}{5}\right)} - \frac{s\,{}_1F_3\left(\frac{9}{10};\frac{3}{5},\frac{4}{5},\frac{6}{5};-\frac{4s^5}{3125(D_\beta t)^2}\right)}{(D_\beta t)^{2/5}\Gamma\left(\frac{1}{5}\right)} + \frac{s^2\,{}_1F_3\left(\frac{11}{10};\frac{4}{5},\frac{6}{5},\frac{7}{5};-\frac{4s^5}{3125(D_\beta t)^2}\right)}{2(D_\beta t)^{4/5}\Gamma\left(-\frac{1}{5}\right)} - \frac{s^3\,{}_1F_3\left(\frac{13}{10};\frac{6}{5},\frac{7}{5},\frac{8}{5};-\frac{4s^5}{3125(D_\beta t)^2}\right)}{6(D_\beta t)^{6/5}\Gamma\left(-\frac{3}{5}\right)}\right) \tag{S-4}$$

$$\mathscr{E}_{\frac{1}{3}}(s,t) = \frac{3^{2/3}\,\mathrm{Ai}\left(\frac{s}{\sqrt[3]{3}\sqrt[3]{(D_\beta t}}\right)}{\sqrt[3]{(D_\beta t}} \tag{S-5}$$

$$\mathscr{E}_{\frac{1}{5}}(s,t) = \frac{1}{(D_\beta t)^{1/5}} \left(\frac{{}_0F_3\left(;\frac{2}{5},\frac{3}{5},\frac{4}{5};\frac{s^5}{3125(D_\beta t)}\right)}{\Gamma\left(\frac{4}{5}\right)} - \frac{s\,{}_0F_3\left(;\frac{3}{5},\frac{4}{5},\frac{6}{5};\frac{s^5}{3125(D_\beta t)}\right)}{\sqrt[5]{(D_\beta t)}\Gamma\left(\frac{3}{5}\right)} + \frac{s^2\,{}_0F_3\left(;\frac{4}{5},\frac{6}{5},\frac{7}{5};\frac{s^5}{3125(D_\beta t)}\right)}{2(D_\beta t)^{2/5}\Gamma\left(\frac{2}{5}\right)} - \frac{s^3\,{}_0F_3\left(;\frac{6}{5},\frac{7}{5},\frac{8}{5};\frac{s^5}{3125(D_\beta t)}\right)}{6(D_\beta t)^{3/5}\Gamma\left(\frac{1}{5}\right)} \right) \tag{S-6}$$

$$\mathscr{E}_{\frac{1}{9}}(s,t) = \frac{1}{(D_\beta t)^{1/9}} \left(\frac{{}_0F_7\left(;\frac{2}{9},\frac{1}{3},\frac{4}{9},\frac{5}{9},\frac{2}{3},\frac{7}{9},\frac{8}{9};\frac{s^9}{387420489(D_\beta t)}\right)}{\Gamma\left(\frac{8}{9}\right)} - \frac{s\,{}_0F_7\left(;\frac{1}{3},\frac{4}{9},\frac{5}{9},\frac{2}{3},\frac{7}{9},\frac{8}{9},\frac{10}{9};\frac{s^9}{387420489(D_\beta t)}\right)}{\sqrt[9]{(D_\beta t)}\Gamma\left(\frac{7}{9}\right)} + \frac{s^2\,{}_0F_7\left(;\frac{4}{9},\frac{5}{9},\frac{2}{3},\frac{7}{9},\frac{8}{9},\frac{10}{9},\frac{11}{9};\frac{s^9}{387420489(D_\beta t)}\right)}{2(D_\beta t)^{2/9}\Gamma\left(\frac{2}{3}\right)} - \frac{s^3\,{}_0F_7\left(;\frac{5}{9},\frac{2}{3},\frac{7}{9},\frac{8}{9},\frac{10}{9},\frac{11}{9},\frac{4}{3};\frac{s^9}{387420489(D_\beta t)}\right)}{6\sqrt[3]{(D_\beta t)}\Gamma\left(\frac{5}{9}\right)} + \frac{s^4\,{}_0F_7\left(;\frac{2}{3},\frac{7}{9},\frac{8}{9},\frac{10}{9},\frac{11}{9},\frac{4}{3},\frac{13}{9};\frac{s^9}{387420489(D_\beta t)}\right)}{24(D_\beta t)^{4/9}\Gamma\left(\frac{4}{9}\right)} - \frac{s^5\,{}_0F_7\left(;\frac{7}{9},\frac{8}{9},\frac{10}{9},\frac{11}{9},\frac{4}{3},\frac{13}{9},\frac{14}{9};\frac{s^9}{387420489(D_\beta t)}\right)}{120(D_\beta t)^{5/9}\Gamma\left(\frac{1}{3}\right)} + \frac{s^6\,{}_0F_7\left(;\frac{8}{9},\frac{10}{9},\frac{11}{9},\frac{4}{3},\frac{13}{9},\frac{14}{9},\frac{5}{3};\frac{s^9}{387420489(D_\beta t)}\right)}{720(D_\beta t)^{2/3}\Gamma\left(\frac{2}{9}\right)} - \frac{s^7\,{}_0F_7\left(;\frac{10}{9},\frac{11}{9},\frac{4}{3},\frac{13}{9},\frac{14}{9},\frac{5}{3},\frac{16}{9};\frac{s^9}{387420489(D_\beta t)}\right)}{5040(D_\beta t)^{7/9}\Gamma\left(\frac{1}{9}\right)} \right) \tag{S-7}$$

2. Full anomalous diffusion solutions for selected β values

We present the solution to the probability density function (PDF) for the selected eight β values. Mathematically, the sub-ordination integration is represented as: $P(x,t) = \int_0^\infty \mathscr{E}_\beta(s,t) P_1(x,s) ds$. Here, i.e., $P(x,t) = \frac{1}{\sqrt{4\pi K_1 t}} \exp\left(-\frac{x^2}{4K_1 t}\right)$ is the Gaussian

PDF introduced as eqn (**2**) in the main manuscript, and $\mathscr{E}_\beta$ is the time kernel for eight β values represented as eqn (**7**) in the main manuscript and as eqn (**S-1**) to eqn (**S-7**) in current supporting information respectively.

A.1: Using subordination integration between eqn (**S-1**) and the Gaussian, the PDF for $\beta = \frac{4}{5}$ is as follows:

$$
\begin{aligned}
&P(x,t) = \frac{1}{t^{4/5}} \left(-\frac{1}{2\sqrt{\pi} t^{4/5} \Gamma\left(-\frac{3}{5}\right)} \times \right. \\
&\left(-\frac{25\left(\sqrt{5}-5\right) t^{6/5} \Gamma\left(\frac{7}{5}\right)^2 \, {}_2F_7\left(\frac{7}{20}, \frac{17}{20}; \frac{1}{5}, \frac{3}{10}, \frac{2}{5}, \frac{1}{2}, \frac{7}{10}, \frac{4}{5}, \frac{9}{10}; \frac{x^{10}}{39062500 t^4}\right)}{6\left(\sqrt{5}-1\right)\sqrt{2\left(\sqrt{5}+5\right)\pi}} + \right. \\
&\frac{4\sqrt{\frac{2\left(\sqrt{5}+5\right)}{\pi}} t^{2/5} x^2 \Gamma\left(-\frac{8}{5}\right) \Gamma\left(\frac{6}{5}\right) \, {}_2F_7\left(\frac{11}{20}, \frac{21}{20}; \frac{2}{5}, \frac{1}{2}, \frac{3}{5}, \frac{7}{10}, \frac{9}{10}, \frac{11}{10}, \frac{6}{5}; \frac{x^{10}}{39062500 t^4}\right)}{25 - 25\sqrt{5}} + \\
&\frac{\sqrt{\frac{\left(5-\sqrt{5}\right)\pi}{\sqrt{5}+5}} |x|^3 \, {}_2F_7\left(\frac{13}{20}, \frac{23}{20}; \frac{1}{2}, \frac{3}{5}, \frac{7}{10}, \frac{4}{5}, \frac{11}{10}, \frac{6}{5}, \frac{13}{10}; \frac{x^{10}}{39062500 t^4}\right)}{3\left(\sqrt{5}-1\right)} + \\
&\frac{x^6 \Gamma\left(\frac{7}{10}\right) \, {}_2F_7\left(\frac{19}{20}, \frac{29}{20}; \frac{4}{5}, \frac{9}{10}, \frac{11}{10}, \frac{13}{10}, \frac{7}{5}, \frac{3}{2}, \frac{8}{5}; \frac{x^{10}}{39062500 t^4}\right)}{750 \; 2^{3/5} t^{6/5}} - \\
&\frac{13\sqrt{\pi} x^8 \, {}_2F_7\left(\frac{23}{20}, \frac{33}{20}; \frac{11}{10}, \frac{6}{5}, \frac{13}{10}, \frac{3}{2}, \frac{8}{5}, \frac{17}{10}, \frac{9}{5}; \frac{x^{10}}{39062500 t^4}\right)}{630000 t^2} + \\
&\left. \left. \frac{x^4 \Gamma\left(-\frac{3}{5}\right) \, {}_3F_8\left(\frac{3}{4}, 1, \frac{5}{4}; \frac{3}{5}, \frac{7}{10}, \frac{4}{5}, \frac{9}{10}, \frac{11}{10}, \frac{6}{5}, \frac{13}{10}, \frac{7}{5}; \frac{x^{10}}{39062500 t^4}\right)}{6\left(\sqrt{5}-1\right)\sqrt{10\left(5-\sqrt{5}\right)\pi} t^{2/5}} \right) + \right. \\
&\frac{1}{2\sqrt{\pi}\Gamma\left(\frac{1}{5}\right)} \times \\
&\left(-\frac{9 t^{2/5} \Gamma\left(-\frac{9}{10}\right) \, {}_2F_7\left(\frac{7}{20}, \frac{17}{20}; \frac{1}{5}, \frac{3}{10}, \frac{2}{5}, \frac{1}{2}, \frac{7}{10}, \frac{4}{5}, \frac{9}{10}; \frac{x^{10}}{39062500 t^4}\right)}{25 \; 2^{4/5}} - \right. \\
&\sqrt{\pi}|x| \, {}_2F_7\left(\frac{9}{20}, \frac{19}{20}; \frac{3}{10}, \frac{2}{5}, \frac{1}{2}, \frac{3}{5}, \frac{4}{5}, \frac{9}{10}, \frac{11}{10}; \frac{x^{10}}{39062500 t^4}\right) + \\
&\frac{2\sqrt{5\pi} x^2 \Gamma\left(\frac{6}{5}\right) \, {}_2F_7\left(\frac{11}{20}, \frac{21}{20}; \frac{2}{5}, \frac{1}{2}, \frac{3}{5}, \frac{7}{10}, \frac{9}{10}, \frac{11}{10}, \frac{6}{5}; \frac{x^{10}}{39062500 t^4}\right)}{\left(\sqrt{5}-5\right) t^{2/5} \Gamma\left(-\frac{1}{5}\right)} + \\
&\frac{\sqrt{\pi} x^6 \, {}_2F_7\left(\frac{19}{20}, \frac{29}{20}; \frac{4}{5}, \frac{9}{10}, \frac{11}{10}, \frac{13}{10}, \frac{7}{5}, \frac{3}{2}, \frac{8}{5}; \frac{x^{10}}{39062500 t^4}\right)}{2500 t^2} - \\
&\frac{13\left(\sqrt{5}-1\right) x^8 \Gamma\left(\frac{3}{10}\right) \, {}_2F_7\left(\frac{23}{20}, \frac{33}{20}; \frac{11}{10}, \frac{6}{5}, \frac{13}{10}, \frac{3}{2}, \frac{8}{5}, \frac{17}{10}, \frac{9}{5}; \frac{x^{10}}{39062500 t^4}\right)}{1050000 \; 2^{2/5} t^{14/5}} + \\
&\frac{1}{32917500000 t^{14/5} \Gamma\left(-\frac{11}{5}\right) \Gamma\left(\frac{21}{5}\right)} \left(-10533600000 \left(\sqrt{5}-1\right) t^{16/5} \Gamma\left(\frac{2}{5}\right) \times \right. \\
&{}_2F_7\left(\frac{7}{20}, \frac{17}{20}; \frac{1}{5}, \frac{3}{10}, \frac{2}{5}, \frac{1}{2}, \frac{7}{10}, \frac{4}{5}, \frac{9}{10}; \frac{x^{10}}{39062500 t^4}\right) + \\
&623437500 t^{12/5} x^2 \Gamma\left(\frac{21}{5}\right) \, {}_2F_7\left(\frac{11}{20}, \frac{21}{20}; \frac{2}{5}, \frac{1}{2}, \frac{3}{5}, \frac{7}{10}, \frac{9}{10}, \frac{11}{10}, \frac{6}{5}; \frac{x^{10}}{39062500 t^4}\right) + \\
&1375000 \left(\sqrt{5}+1\right) t^{4/5} x^6 \Gamma\left(\frac{24}{5}\right) \times \\
&{}_2F_7\left(\frac{19}{20}, \frac{29}{20}; \frac{4}{5}, \frac{9}{10}, \frac{11}{10}, \frac{13}{10}, \frac{7}{5}, \frac{3}{2}, \frac{8}{5}; \frac{x^{10}}{39062500 t^4}\right) -
\end{aligned}
$$

$$3265625t^{2/5}x^6\Gamma\left(\tfrac{21}{5}\right)|x|\,{}_2F_7\left(\tfrac{21}{20},\tfrac{31}{20};\tfrac{9}{10},\tfrac{11}{10},\tfrac{6}{5},\tfrac{7}{5},\tfrac{3}{2},\tfrac{8}{5},\tfrac{17}{10};\tfrac{x^{10}}{39062500t^4}\right)-$$
$$20064x^4\left(13\left(\sqrt{5}+1\right)x^4\Gamma\left(-\tfrac{2}{5}\right)\times\right.$$
$${}_2F_7\left(\tfrac{23}{20},\tfrac{33}{20};\tfrac{11}{10},\tfrac{6}{5},\tfrac{13}{10},\tfrac{3}{2},\tfrac{8}{5},\tfrac{17}{10},\tfrac{9}{5};\tfrac{x^{10}}{39062500t^4}\right)+$$
$$\left.21875\left(\sqrt{5}-1\right)t^{8/5}\,{}_3F_8\left(\tfrac{3}{4},1,\tfrac{5}{4};\tfrac{3}{5},\tfrac{7}{10},\tfrac{4}{5},\tfrac{9}{10},\tfrac{11}{10},\tfrac{6}{5},\tfrac{13}{10},\tfrac{7}{5};\tfrac{x^{10}}{39062500t^4}\right)\right)\Big)-$$

$$\frac{1}{6703200\left(\sqrt{5}-1\right)\left(\sqrt{5}+5\right)^{5/2}\pi t^{14/5}\Gamma\left(-\frac{7}{5}\right)}\sqrt{5}+1\left(-23940000\sqrt{\sqrt{5}+5}\pi t^{16/5}\times\right.$$
$${}_2F_7\left(\tfrac{7}{20},\tfrac{17}{20};\tfrac{1}{5},\tfrac{3}{10},\tfrac{2}{5},\tfrac{1}{2},\tfrac{7}{10},\tfrac{4}{5},\tfrac{9}{10};\tfrac{x^{10}}{39062500t^4}\right)+$$

$$2493750\sqrt{10}t^{12/5}x^2\Gamma\left(\tfrac{1}{5}\right)\Gamma\left(\tfrac{13}{5}\right)\,{}_2F_7\left(\tfrac{11}{20},\tfrac{21}{20};\tfrac{2}{5},\tfrac{1}{2},\tfrac{3}{5},\tfrac{7}{10},\tfrac{9}{10},\tfrac{11}{10},\tfrac{6}{5};\tfrac{x^{10}}{39062500t^4}\right)+$$

$$x^4\left(558600\sqrt{\sqrt{5}+5}\pi t^{6/5}|x|\,{}_2F_7\left(\tfrac{17}{20},\tfrac{27}{20};\tfrac{7}{10},\tfrac{4}{5},\tfrac{9}{10},\tfrac{6}{5},\tfrac{13}{10},\tfrac{7}{5},\tfrac{3}{2};\tfrac{x^{10}}{39062500t^4}\right)+\right.$$

$$625\sqrt{2}\left(3\sqrt{5}+5\right)t^{4/5}x^2\Gamma\left(-\tfrac{2}{5}\right)\Gamma\left(\tfrac{24}{5}\right)\,{}_2F_7\left(\tfrac{19}{20},\tfrac{29}{20};\tfrac{4}{5},\tfrac{9}{10},\tfrac{11}{10},\tfrac{13}{10},\tfrac{7}{5},\tfrac{3}{2},\tfrac{8}{5};\tfrac{x^{10}}{39062500t^4}\right)+$$

$$114\Gamma\left(\tfrac{3}{5}\right)\left(13\sqrt{10}x^4\Gamma\left(\tfrac{3}{5}\right)\,{}_2F_7\left(\tfrac{23}{20},\tfrac{33}{20};\tfrac{11}{10},\tfrac{6}{5},\tfrac{13}{10},\tfrac{3}{2},\tfrac{8}{5},\tfrac{17}{10},\tfrac{9}{5};\tfrac{x^{10}}{39062500t^4}\right)-\right.$$
$$\left.\left.\left.4375\sqrt{\sqrt{5}+3}\left(\sqrt{5}+5\right)t^{8/5}\,{}_3F_8\left(\tfrac{3}{4},1,\tfrac{5}{4};\tfrac{3}{5},\tfrac{7}{10},\tfrac{4}{5},\tfrac{9}{10},\tfrac{11}{10},\tfrac{6}{5},\tfrac{13}{10},\tfrac{7}{5};\tfrac{x^{10}}{39062500t^4}\right)\right)\right)\right)$$

A.2: Using subordination integration between eqn (**S-2**) and the Gaussian, the PDF for $\beta=\frac{3}{4}$ is as follows:

$$P(x,t)=\left(2^{3/4}t^{9/8}\Gamma\left(\tfrac{3}{8}\right)\Gamma\left(\tfrac{11}{24}\right)\Gamma\left(\tfrac{19}{24}\right)\Gamma\left(\tfrac{5}{4}\right)\times\right.$$
$$\frac{{}_2F_6\left(\frac{11}{24},\frac{19}{24};\frac{1}{4},\frac{3}{8},\frac{1}{2},\frac{5}{8},\frac{3}{4},\frac{7}{8};-\frac{27x^8}{16777216t^3}\right)}{\sqrt[8]{3}\pi^{3/2}}-$$
$$\frac{\sqrt[4]{2}3^{5/8}t^{3/8}x^2\Gamma\left(\frac{17}{24}\right)\Gamma\left(\frac{3}{4}\right)\Gamma\left(\frac{25}{24}\right)\Gamma\left(\frac{9}{8}\right){}_2F_6\left(\frac{17}{24},\frac{25}{24};\frac{1}{2},\frac{5}{8},\frac{3}{4},\frac{7}{8},\frac{9}{8},\frac{5}{4};-\frac{27x^8}{16777216t^3}\right)}{\pi^{3/2}}+$$
$$\frac{1}{6}\sqrt{\pi}|x|^3\,{}_2F_6\left(\tfrac{5}{6},\tfrac{7}{6};\tfrac{5}{8},\tfrac{3}{4},\tfrac{7}{8},\tfrac{9}{8},\tfrac{5}{4},\tfrac{11}{8};-\frac{27x^8}{16777216t^3}\right)-$$
$$\frac{3^{3/8}x^4\Gamma\left(\frac{23}{24}\right)\Gamma\left(\frac{31}{24}\right){}_2F_6\left(\frac{23}{24},\frac{31}{24};\frac{3}{4},\frac{7}{8},\frac{9}{8},\frac{5}{4},\frac{11}{8},\frac{3}{2};-\frac{27x^8}{16777216t^3}\right)}{8\sqrt{2}t^{3/8}\Gamma\left(\frac{3}{8}\right)}+$$
$$\left.\frac{\sqrt[8]{3}x^6\Gamma\left(\frac{29}{24}\right)\Gamma\left(\frac{37}{24}\right){}_2F_6\left(\frac{29}{24},\frac{37}{24};\frac{9}{8},\frac{5}{4},\frac{11}{8},\frac{3}{2},\frac{13}{8},\frac{7}{4};-\frac{27x^8}{16777216t^3}\right)}{640\sqrt{2}t^{9/8}\Gamma\left(\frac{9}{8}\right)}\right)+$$
$$\frac{1}{4\sqrt{\pi}t\Gamma\left(-\frac{5}{4}\right)}\times$$
$$\left(\frac{\sqrt[8]{3}t^{11/8}\Gamma\left(-\frac{3}{4}\right)^2\Gamma\left(\frac{3}{8}\right)\Gamma\left(\frac{11}{24}\right)\Gamma\left(\frac{19}{24}\right){}_2F_6\left(\frac{11}{24},\frac{19}{24};\frac{1}{4},\frac{3}{8},\frac{1}{2},\frac{5}{8},\frac{3}{4},\frac{7}{8};-\frac{27x^8}{16777216t^3}\right)}{16\ 2^{3/4}\pi\Gamma\left(\frac{13}{12}\right)\Gamma\left(\frac{17}{12}\right)}+\right.$$
$$\frac{\sqrt{\pi}x^2}{55440t^{7/8}}$$
$$\left(-\frac{6930\ 3^{5/8}t^{3/4}x^2\Gamma\left(-\frac{3}{4}\right)\Gamma\left(\frac{23}{24}\right)\Gamma\left(\frac{31}{24}\right){}_2F_6\left(\frac{23}{24},\frac{31}{24};\frac{3}{4},\frac{7}{8},\frac{9}{8},\frac{5}{4},\frac{11}{8},\frac{3}{2};-\frac{27x^8}{16777216t^3}\right)}{\Gamma\left(\frac{1}{12}\right)\Gamma\left(\frac{3}{8}\right)\Gamma\left(\frac{17}{12}\right)}-\right.$$
$$\left.\frac{1001\sqrt[4]{2}3^{3/8}\pi^{3/2}x^4\cos\left(\frac{\pi}{8}\right){}_2F_6\left(\frac{29}{24},\frac{37}{24};\frac{9}{8},\frac{5}{4},\frac{11}{8},\frac{3}{2},\frac{13}{8},\frac{7}{4};-\frac{27x^8}{16777216t^3}\right)}{\Gamma\left(\frac{1}{24}\right)\Gamma\left(\frac{3}{8}\right)\Gamma\left(\frac{17}{24}\right)}+\right.$$

$$\frac{1728\sqrt{2}23^{7/8}t^{3/2}\sin\left(\frac{\pi}{8}\right)\Gamma\left(-\frac{3}{4}\right)\Gamma\left(\frac{3}{8}\right){}_2F_6\left(\frac{17}{24},\frac{25}{24};\frac{1}{2},\frac{5}{8},\frac{3}{4},\frac{7}{8},\frac{9}{8},\frac{5}{4};-\frac{27x^8}{16777216t^3}\right)}{\Gamma\left(-\frac{35}{24}\right)\Gamma\left(\frac{29}{24}\right)}\Bigg)\Bigg)+$$

$$\frac{1}{2\sqrt{\pi}\Gamma\left(\frac{1}{4}\right)}\times$$
$$\Bigg(\frac{2\sqrt{\pi}t^{3/8}\csc\left(\frac{\pi}{8}\right)\Gamma\left(\frac{3}{4}\right)\Gamma\left(\frac{9}{8}\right){}_2F_6\left(\frac{11}{24},\frac{19}{24};\frac{1}{4},\frac{3}{8},\frac{1}{2},\frac{5}{8},\frac{3}{4},\frac{7}{8};-\frac{27x^8}{16777216t^3}\right)}{3^{3/8}\Gamma\left(\frac{7}{24}\right)\Gamma\left(\frac{23}{24}\right)}-$$
$$\sqrt{\pi}\sqrt{x^2}\,{}_2F_6\left(\frac{7}{12},\frac{11}{12};\frac{3}{8},\frac{1}{2},\frac{5}{8},\frac{3}{4},\frac{7}{8},\frac{9}{8};-\frac{27x^8}{16777216t^3}\right)+$$

$$\frac{1}{294912\pi t^{15/8}\Gamma\left(\frac{11}{24}\right)\Gamma\left(\frac{7}{12}\right)\Gamma\left(\frac{11}{12}\right)\Gamma\left(\frac{9}{8}\right)}\times$$
$$\Big(14400\ 2^{3/4}3^{3/8}t^{3/2}x^2\Gamma\left(-\tfrac{5}{4}\right)^2\Gamma\left(\tfrac{11}{24}\right)\Gamma\left(\tfrac{17}{24}\right)\Gamma\left(\tfrac{25}{24}\right)\Gamma\left(\tfrac{9}{8}\right)^2\times$$
$${}_2F_6\left(\frac{17}{24},\frac{25}{24};\frac{1}{2},\frac{5}{8},\frac{3}{4},\frac{7}{8},\frac{9}{8},\frac{5}{4};-\frac{27x^8}{16777216t^3}\right)+$$

$$\sqrt[8]{3}\pi^{5/2}x^4\left(13\ 3^{3/4}x^2\Gamma\left(-\tfrac{5}{4}\right)\Gamma\left(\tfrac{29}{24}\right)\times\right.$$
$$\sec\left(\tfrac{\pi}{24}\right)\,{}_2F_6\left(\frac{29}{24},\frac{37}{24};\frac{9}{8},\frac{5}{4},\frac{11}{8},\frac{3}{2},\frac{13}{8},\frac{7}{4};-\frac{27x^8}{16777216t^3}\right)-$$
$$\left.4608\sqrt[3]{2}t^{3/4}\sin\left(\tfrac{\pi}{8}\right)\Gamma\left(\tfrac{11}{12}\right)\Gamma\left(\tfrac{31}{24}\right)\,{}_2F_6\left(\frac{23}{24},\frac{31}{24};\frac{3}{4},\frac{7}{8},\frac{9}{8},\frac{5}{4},\frac{11}{8},\frac{3}{2};-\frac{27x^8}{16777216t^3}\right)\right)\Big)\Big)\Big)$$

A.3: Using subordination integration between eqn (**S-3**) and the Gaussian, the PDF for $\beta = \frac{2}{3}$ is as follows:

$$P(x,t)=\frac{e^{-\frac{2}{27t^2}}}{58047528960\pi^{3/2}t^{11/3}}\times$$
$$\frac{87071293440\sqrt{2}\pi t^{10/3}\Gamma\left(\frac{13}{12}\right){}_0F_7\left(;\frac{1}{6},\frac{1}{4},\frac{1}{3},\frac{1}{2},\frac{2}{3},\frac{5}{6},\frac{11}{12};\frac{x^{12}}{139314069504t^4}\right)}{\Gamma\left(\frac{1}{4}\right)}-$$

$$81920\sqrt{3\pi}\sqrt[3]{t}|x|\times$$
$$\Big(177147t^{8/3}\Gamma\left(\tfrac{2}{3}\right)\,{}_0F_7\left(;\tfrac{1}{4},\tfrac{1}{3},\tfrac{5}{12},\tfrac{7}{12},\tfrac{3}{4},\tfrac{11}{12},\tfrac{13}{12};\frac{x^{12}}{139314069504t^4}\right)+$$
$$11x^8\Gamma\left(-\tfrac{14}{3}\right)\,{}_0F_7\left(;\tfrac{11}{12},\tfrac{13}{12},\tfrac{5}{4},\tfrac{17}{12},\tfrac{19}{12},\tfrac{5}{3},\tfrac{7}{4};\frac{x^{12}}{139314069504t^4}\right)\Big)-$$

$$243x^2\times$$
$$\Big(12441600t^{8/3}\Gamma\left(-\tfrac{5}{12}\right)\Gamma\left(\tfrac{11}{12}\right)\,{}_0F_7\left(;\tfrac{1}{3},\tfrac{5}{12},\tfrac{1}{2},\tfrac{2}{3},\tfrac{5}{6},\tfrac{13}{12},\tfrac{7}{6};\frac{x^{12}}{139314069504t^4}\right)-$$
$$3680t^2x^2\Gamma\left(-\tfrac{1}{4}\right)\Gamma\left(\tfrac{5}{12}\right)\,{}_0F_7\left(;\tfrac{1}{2},\tfrac{7}{12},\tfrac{2}{3},\tfrac{5}{6},\tfrac{7}{6},\tfrac{5}{4},\tfrac{4}{3};\frac{x^{12}}{139314069504t^4}\right)+$$
$$2880t^{4/3}x^4\Gamma\left(-\tfrac{5}{12}\right)\Gamma\left(\tfrac{1}{4}\right)\,{}_0F_7\left(;\tfrac{2}{3},\tfrac{3}{4},\tfrac{5}{6},\tfrac{7}{6},\tfrac{4}{3},\tfrac{17}{12},\tfrac{3}{2};\frac{x^{12}}{139314069504t^4}\right)-$$
$$60t^{2/3}x^6\Gamma\left(-\tfrac{7}{12}\right)\Gamma\left(\tfrac{1}{12}\right)\,{}_0F_7\left(;\tfrac{5}{6},\tfrac{11}{12},\tfrac{7}{6},\tfrac{4}{3},\tfrac{3}{2},\tfrac{19}{12},\tfrac{5}{3};\frac{x^{12}}{139314069504t^4}\right)+$$
$$x^8\Gamma\left(-\tfrac{3}{4}\right)\Gamma\left(-\tfrac{1}{12}\right)\,{}_0F_7\left(;\tfrac{13}{12},\tfrac{7}{6},\tfrac{4}{3},\tfrac{3}{2},\tfrac{5}{3},\tfrac{7}{4},\tfrac{11}{6};\frac{x^{12}}{139314069504t^4}\right)\Big)+$$
$$324\left(-\frac{6998400\sqrt{2}\pi t^{10/3}\Gamma\left(-\frac{5}{12}\right){}_0F_7\left(;\frac{1}{6},\frac{1}{3},\frac{5}{12},\frac{1}{2},\frac{2}{3},\frac{3}{4},\frac{5}{6};\frac{x^{12}}{139314069504t^4}\right)}{\Gamma\left(\frac{7}{4}\right)}+\right.$$

$$13063680t^{8/3}x^2\Gamma\left(-\tfrac{7}{12}\right)\Gamma\left(\tfrac{13}{12}\right)\ {}_0F_7\left(;\tfrac{1}{3},\tfrac{1}{2},\tfrac{7}{12},\tfrac{2}{3},\tfrac{5}{6},\tfrac{11}{12},\tfrac{7}{6};\tfrac{x^{12}}{139314069504t^4}\right)-$$

$$1658880\sqrt{3\pi}t^{7/3}\Gamma\left(-\tfrac{2}{3}\right)|x|^3\ {}_0F_7\left(;\tfrac{5}{12},\tfrac{7}{12},\tfrac{2}{3},\tfrac{3}{4},\tfrac{11}{12},\tfrac{13}{12},\tfrac{5}{4};\tfrac{x^{12}}{139314069504t^4}\right)+$$

$$77760t^2x^4\Gamma\left(-\tfrac{1}{12}\right)\Gamma\left(\tfrac{1}{4}\right)\ {}_0F_7\left(;\tfrac{1}{2},\tfrac{2}{3},\tfrac{3}{4},\tfrac{5}{6},\tfrac{13}{12},\tfrac{7}{6},\tfrac{4}{3};\tfrac{x^{12}}{139314069504t^4}\right)+$$

$$\frac{8640\sqrt{2}\pi t^{4/3}x^6\Gamma\left(\frac{1}{12}\right){}_0F_7\left(;\frac{2}{3},\frac{5}{6},\frac{11}{12},\frac{7}{6},\frac{5}{4},\frac{4}{3},\frac{3}{2};\frac{x^{12}}{139314069504t^4}\right)}{\Gamma\left(\frac{1}{4}\right)}-$$

$$20480\sqrt{3\pi}tx^6\Gamma\left(-\tfrac{10}{3}\right)|x|\ {}_0F_7\left(;\tfrac{3}{4},\tfrac{11}{12},\tfrac{13}{12},\tfrac{5}{4},\tfrac{4}{3},\tfrac{17}{12},\tfrac{19}{12};\tfrac{x^{12}}{139314069504t^4}\right)+$$

$$45t^{2/3}x^8\Gamma\left(-\tfrac{5}{12}\right)\Gamma\left(-\tfrac{1}{12}\right)\ {}_0F_7\left(;\tfrac{5}{6},\tfrac{13}{12},\tfrac{7}{6},\tfrac{4}{3},\tfrac{17}{12},\tfrac{3}{2},\tfrac{5}{3};\tfrac{x^{12}}{139314069504t^4}\right)+$$

$$\left.\left.\frac{3\sqrt{2}\pi x^{10}\Gamma\left(-\frac{7}{12}\right){}_0F_7\left(;\frac{7}{6},\frac{5}{4},\frac{4}{3},\frac{3}{2},\frac{19}{12},\frac{5}{3},\frac{11}{6};\frac{x^{12}}{139314069504t^4}\right)}{\Gamma\left(\frac{1}{4}\right)}\right)\right)$$

A.4: Using subordination integration between eqn (**7**) from the main manuscript and the Gaussian, the PDF for $\beta=\frac{1}{2}$ is as follows:

$$P(x,t)=\frac{\sqrt{t}}{\sqrt{\pi}}\left(\frac{\sqrt[4]{t}\Gamma\left(\frac{1}{4}\right){}_0F_2\left(;\frac{1}{2},\frac{3}{4};-\frac{x^4}{256t}\right)}{2\sqrt{2\pi}}-\right.$$

$$-\tfrac{1}{2}|x|\ {}_0F_2\left(;\tfrac{3}{4},\tfrac{5}{4};-\frac{x^4}{256t}\right)$$

$$\left.-\frac{x^2\Gamma\left(-\frac{1}{4}\right){}_0F_2\left(;\frac{5}{4},\frac{3}{2};-\frac{x^4}{256t}\right)}{16\sqrt{2\pi}\sqrt[4]{t}}\right)$$

A.5: Using subordination integration between eqn (**S-4**) and the Gaussian, the PDF for $\beta=\frac{2}{5}$ is as follows:

$$P(x,t)=-\left(\left(16\pi\left(99225\sqrt{2}t^{8/5}\Gamma\left(\tfrac{2}{5}\right)\left(5\sqrt{25-5\sqrt{5}}\Gamma\left(\tfrac{1}{5}\right)\ +\right.\right.\right.\right.$$

$$\sqrt{5-\sqrt{5}}\left(5\Gamma\left(\tfrac{1}{5}\right)-16\Gamma\left(-\tfrac{4}{5}\right)\right)+2\sqrt{\sqrt{5}+5}\left(8\Gamma\left(-\tfrac{4}{5}\right)-75\Gamma\left(\tfrac{6}{5}\right)\right)-$$

$$\left.\left.\left.\left.50\sqrt{5\left(\sqrt{5}+5\right)}\Gamma\left(\tfrac{6}{5}\right)\right)\Gamma\left(\tfrac{8}{5}\right)\ {}_0F_7\left(;\tfrac{1}{5},\tfrac{3}{10},\tfrac{2}{5},\tfrac{1}{2},\tfrac{7}{10},\tfrac{4}{5},\tfrac{9}{10};\tfrac{x^{10}}{2500000000t^2}\right)-\right.\right.\right.$$

$$1488375\left(\sqrt{5}+1\right)\sqrt{2\left(\sqrt{5}+5\right)}t^{7/5}\Gamma\left(-\tfrac{3}{5}\right)\Gamma\left(\tfrac{2}{5}\right)\Gamma\left(\tfrac{8}{5}\right)|x|\times$$

$${}_0F_7\left(;\tfrac{3}{10},\tfrac{2}{5},\tfrac{1}{2},\tfrac{3}{5},\tfrac{4}{5},\tfrac{9}{10},\tfrac{11}{10};\tfrac{x^{10}}{2500000000t^2}\right)-$$

$$\frac{496125}{2}\left(\sqrt{5}+1\right)t^{6/5}x^2\left(24\pi-\sqrt{2\left(\sqrt{5}+5\right)}\Gamma\left(\tfrac{2}{5}\right)\Gamma\left(\tfrac{3}{5}\right)\right)\Gamma\left(\tfrac{8}{5}\right)\times$$

$${}_0F_7\left(;\tfrac{2}{5},\tfrac{1}{2},\tfrac{3}{5},\tfrac{7}{10},\tfrac{9}{10},\tfrac{11}{10},\tfrac{6}{5};\tfrac{x^{10}}{2500000000t^2}\right)+$$

$$99225\sqrt{10-2\sqrt{5}}\left(\sqrt{5}+1\right)t\Gamma\left(-\tfrac{6}{5}\right)\Gamma\left(\tfrac{2}{5}\right)\Gamma\left(\tfrac{8}{5}\right)|x|^3\times$$

$${}_0F_7\left(;\tfrac{1}{2},\tfrac{3}{5},\tfrac{7}{10},\tfrac{4}{5},\tfrac{11}{10},\tfrac{6}{5},\tfrac{13}{10};\tfrac{x^{10}}{2500000000t^2}\right)+$$

$$\tfrac{1}{4}x^4\Gamma\left(\tfrac{2}{5}\right)\left(-33075\sqrt{2\left(\sqrt{5}+5\right)}t^{3/5}\Gamma\left(\tfrac{1}{5}\right)\Gamma\left(\tfrac{8}{5}\right)|x|\times\right.$$
$${}_0F_7\left(;\tfrac{7}{10},\tfrac{4}{5},\tfrac{9}{10},\tfrac{6}{5},\tfrac{13}{10},\tfrac{7}{5},\tfrac{3}{2};\tfrac{x^{10}}{2500000000t^2}\right)+$$
$$\tfrac{441}{2}t^{2/5}x^2\left(24\left(\sqrt{5}+3\right)\pi+\sqrt{2}\left(50\sqrt{5-\sqrt{5}}\Gamma\left(\tfrac{7}{5}\right)+\right.\right.$$
$$\left.\left.\sqrt{\sqrt{5}+5}\left(25\Gamma\left(\tfrac{7}{5}\right)+3\Gamma\left(-\tfrac{3}{5}\right)\right)+\sqrt{5\left(\sqrt{5}+5\right)}\left(25\Gamma\left(\tfrac{7}{5}\right)+3\Gamma\left(-\tfrac{3}{5}\right)\right)\right)\Gamma\left(\tfrac{8}{5}\right)\right)\times$$
$${}_0F_7\left(;\tfrac{4}{5},\tfrac{9}{10},\tfrac{11}{10},\tfrac{13}{10},\tfrac{7}{5},\tfrac{3}{2},\tfrac{8}{5};\tfrac{x^{10}}{2500000000t^2}\right)+$$
$$\sqrt{2}\Gamma\left(\tfrac{8}{5}\right)\left(\tfrac{1}{4}(-4725)\left(\sqrt{5}+1\right)\sqrt{\sqrt{5}+5}\sqrt[5]{t}\Gamma\left(\tfrac{3}{5}\right)|x|^3\times\right.$$
$${}_0F_7\left(;\tfrac{9}{10},\tfrac{11}{10},\tfrac{6}{5},\tfrac{7}{5},\tfrac{3}{2},\tfrac{8}{5},\tfrac{17}{10};\tfrac{x^{10}}{2500000000t^2}\right)+$$
$$\tfrac{1}{16}x^4\left(126\sqrt{25-5\sqrt{5}}\Gamma\left(-\tfrac{1}{5}\right)+126\sqrt{5-\sqrt{5}}\Gamma\left(-\tfrac{1}{5}\right)+\sqrt{\sqrt{5}+5}\right.\Big($$
$$625\Gamma\left(\tfrac{19}{5}\right)-1575\left(\sqrt{5}-1\right)\Gamma\left(\tfrac{9}{5}\right)-252\left(\sqrt{5}+3\right)\Gamma\left(-\tfrac{1}{5}\right)\Big)\Big)$$
$${}_0F_7\left(;\tfrac{11}{10},\tfrac{6}{5},\tfrac{13}{10},\tfrac{3}{2},\tfrac{8}{5},\tfrac{17}{10},\tfrac{9}{5};\tfrac{x^{10}}{2500000000t^2}\right)+$$
$$165375\left(3\sqrt{5-\sqrt{5}}-\left(\sqrt{5}+1\right)\sqrt{\sqrt{5}+5}+\sqrt{25-5\sqrt{5}}\right)t^{4/5}$$
$$\left.{}_1F_8\left(1;\tfrac{3}{5},\tfrac{7}{10},\tfrac{4}{5},\tfrac{9}{10},\tfrac{11}{10},\tfrac{6}{5},\tfrac{13}{10},\tfrac{7}{5};\tfrac{x^{10}}{2500000000t^2}\right)\Big)\Big)\Big)\Big)\right/$$
$$11907\left(5-\sqrt{5}\right)^{3/2}\left(\sqrt{5}-1\right)\left(\sqrt{5}+5\right)^{7/2}t^{9/5}\Gamma\left(-\tfrac{3}{5}\right)\Gamma\left(-\tfrac{1}{5}\right)\Gamma\left(\tfrac{1}{5}\right)\Gamma\left(\tfrac{2}{5}\right)\Gamma\left(\tfrac{3}{5}\right)\Gamma\left(\tfrac{8}{5}\right)\Big)$$

A.6: Using subordination integration between eqn (**S-5**) from the main manuscript and the Gaussian, the PDF for $\beta=\frac{1}{3}$ is as follows:

$$P(x,t)=\tfrac{1}{1728\pi\sqrt[3]{t}}\left(2592\sqrt[6]{t}\Gamma\left(\tfrac{7}{6}\right){}_0F_4\left(;\tfrac{1}{3},\tfrac{1}{2},\tfrac{2}{3},\tfrac{5}{6};-\tfrac{x^6}{46656t}\right)-\right.$$
$$432\sqrt{3}\Gamma\left(\tfrac{1}{3}\right)|x|\,{}_0F_4\left(;\tfrac{1}{2},\tfrac{2}{3},\tfrac{5}{6},\tfrac{7}{6};-\tfrac{x^6}{46656t}\right)+$$
$$\tfrac{432\sqrt{\pi}x^2\,{}_0F_4\left(;\frac{2}{3},\frac{5}{6},\frac{7}{6},\frac{4}{3};-\frac{x^6}{46656t}\right)}{\sqrt[6]{t}}-$$
$$\tfrac{32\sqrt{3}\Gamma\left(-\frac{4}{3}\right)|x|^3\,{}_0F_4\left(;\frac{5}{6},\frac{7}{6},\frac{4}{3},\frac{3}{2};-\frac{x^6}{46656t}\right)}{\sqrt[3]{t}}-$$
$$\left.\tfrac{3x^4\Gamma\left(-\frac{1}{6}\right){}_0F_4\left(;\frac{7}{6},\frac{4}{3},\frac{3}{2},\frac{5}{3};-\frac{x^6}{46656t}\right)}{\sqrt{t}}\right)$$

A.7: Using subordination integration between eqn (**S-6**) and the Gaussian, the PDF for $\beta=\frac{1}{5}$ is as follows:

$$P(x,t)=\tfrac{1}{\sqrt[5]{t}}\left(-\tfrac{(-1)^{3/10}\sqrt{10-2\sqrt{5}}\,\sqrt[10]{t}\,{}_0F_8\left(;\frac{1}{5},\frac{3}{10},\frac{2}{5},\frac{1}{2},\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{9}{10};-\frac{x^{10}}{10000000000t}\right)}{\Gamma\left(-\frac{1}{10}\right)}+\right.$$

$$\frac{i\left(\sqrt{5}+5\right)^{3/2}\sqrt[10]{t}\,{}_0F_8\left(;\frac{1}{5},\frac{3}{10},\frac{2}{5},\frac{1}{2},\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{9}{10};-\frac{x^{10}}{100000000000t}\right)}{2\sqrt{10}\Gamma\left(-\frac{1}{10}\right)}-$$
$$\frac{5\left((-1)^{9/10}\sqrt{5-\sqrt{5}}\left(\sqrt{5}+1\right)t^{7/10}-\left(\sqrt{5}-1\right)\sqrt{\sqrt{5}+5}(-t)^{7/10}\right)}{11\sqrt{2}\pi t^{3/5}}$$
$$\Gamma\left(\frac{21}{10}\right)\,{}_0F_8\left(;\frac{1}{5},\frac{3}{10},\frac{2}{5},\frac{1}{2},\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{9}{10};-\frac{x^{10}}{100000000000t}\right)-$$
$$\frac{244140625\sqrt{x^2}\,{}_0F_8\left(;\frac{3}{10},\frac{2}{5},\frac{1}{2},\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{9}{10},\frac{11}{10};-\frac{x^{10}}{100000000000t}\right)}{6931873723686912\Gamma\left(-\frac{56}{5}\right)}+$$
$$\frac{(-1)^{7/10}\left(\sqrt{5}-3\right)\sqrt{\sqrt{5}+5}x^2\,{}_0F_8\left(;\frac{2}{5},\frac{1}{2},\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5};-\frac{x^{10}}{100000000000t}\right)}{6\sqrt{2}\,\sqrt[10]{t}\Gamma\left(-\frac{3}{10}\right)}-$$
$$\frac{48828125i\sqrt{\frac{5-\sqrt{5}}{\pi}}x^2\Gamma\left(\frac{3}{5}\right)\,{}_0F_8\left(;\frac{2}{5},\frac{1}{2},\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5};-\frac{x^{10}}{100000000000t}\right)}{27727494894747648\,\sqrt[10]{2}\,\sqrt[10]{t}\Gamma\left(-\frac{56}{5}\right)}+$$
$$\frac{\sqrt{\frac{1}{2}\left(\sqrt{5}+5\right)}\,\sqrt[10]{-\frac{1}{t}}x^2\Gamma\left(\frac{13}{10}\right)\,{}_0F_8\left(;\frac{2}{5},\frac{1}{2},\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5};-\frac{x^{10}}{100000000000t}\right)}{6\pi}+$$
$$\frac{(-1)^{9/10}\sqrt{5}x^2\Gamma\left(\frac{1}{5}\right)\Gamma\left(\frac{8}{5}\right)\,{}_0F_8\left(;\frac{2}{5},\frac{1}{2},\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5};-\frac{x^{10}}{100000000000t}\right)}{2^{3/5}\left(6-6\sqrt{5}\right)\pi^{3/2}\,\sqrt[10]{t}}+$$
$$\frac{5\sqrt{\frac{1}{2}\left(3-\sqrt{5}\right)}\left(x^2\right)^{3/2}\,{}_0F_8\left(;\frac{1}{2},\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5},\frac{13}{10};-\frac{x^{10}}{100000000000t}\right)}{12\left(\sqrt{5}-1\right)\sqrt[5]{t}\Gamma\left(-\frac{2}{5}\right)}+$$
$$\frac{(-1)^{7/10}\left(\sqrt{5}-1\right)\sqrt{\frac{5-\sqrt{5}}{2\pi}}x^4\,{}_0F_8\left(;\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{7}{5};-\frac{x^{10}}{100000000000t}\right)}{480t^{3/10}}-$$
$$\frac{(-1)^{9/10}\left(\sqrt{5}+3\right)\sqrt{\frac{5-\sqrt{5}}{2\pi}}x^4\,{}_0F_8\left(;\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{7}{5};-\frac{x^{10}}{100000000000t}\right)}{480t^{3/10}}-$$
$$\frac{\sqrt[10]{-1}\left(\sqrt{5}+1\right)x^4\,{}_0F_8\left(;\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{7}{5};-\frac{x^{10}}{100000000000t}\right)}{24\left(\sqrt{5}-5\right)\sqrt{2\left(\sqrt{5}+5\right)}\pi t^{3/10}}+$$
$$\frac{\left(\sqrt{5}-1\right)\sqrt{\frac{5-\sqrt{5}}{2\pi}}t^{2/5}x^4\,{}_0F_8\left(;\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{7}{5};-\frac{x^{10}}{100000000000t}\right)}{480(-t)^{7/10}}-$$
$$\frac{\left(x^2\right)^{5/2}\,{}_0F_8\left(;\frac{7}{10},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{7}{5},\frac{3}{2};-\frac{x^{10}}{100000000000t}\right)}{240t^{2/5}\Gamma\left(\frac{2}{5}\right)}-$$
$$\frac{2384185791015625(-1)^{9/10}\sqrt{\pi}x^6\,{}_0F_8\left(;\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{7}{5},\frac{3}{2},\frac{8}{5};-\frac{x^{10}}{100000000000t}\right)}{6065945980057315758495904423194535133184\;2^{2/5}\sqrt{t}\Gamma\left(-\frac{112}{5}\right)\Gamma\left(-\frac{4}{5}\right)}-$$
$$\frac{i\left(\sqrt{5}-1\right)\sqrt{\pi}x^6\,{}_0F_8\left(;\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{7}{5},\frac{3}{2},\frac{8}{5};-\frac{x^{10}}{100000000000t}\right)}{9600\;2^{2/5}\sqrt{t}\Gamma\left(-\frac{4}{5}\right)\Gamma\left(\frac{8}{5}\right)}-$$
$$\frac{(-1)^{3/10}\left(\sqrt{5}-1\right)\sqrt{\frac{1}{2}\left(\sqrt{5}+5\right)}x^6\Gamma\left(\frac{17}{10}\right)\,{}_0F_8\left(;\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{7}{5},\frac{3}{2},\frac{8}{5};-\frac{x^{10}}{100000000000t}\right)}{10080\pi\sqrt{t}}+$$
$$\frac{299\,\sqrt[10]{-1}\sqrt{\frac{1}{2}\left(\sqrt{5}+5\right)}x^6\,{}_0F_8\left(;\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{7}{5},\frac{3}{2},\frac{8}{5};-\frac{x^{10}}{100000000000t}\right)}{1200000\sqrt{t}\Gamma\left(\frac{33}{10}\right)}+$$
$$\frac{\left(x^2\right)^{7/2}\,{}_0F_8\left(;\frac{9}{10},\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{7}{5},\frac{3}{2},\frac{8}{5},\frac{17}{10};-\frac{x^{10}}{100000000000t}\right)}{8064t^{3/5}\Gamma\left(-\frac{4}{5}\right)}+$$
$$\frac{\sqrt[10]{-1}\left(\sqrt{5}+1\right)x^8\Gamma\left(\frac{9}{10}\right)\,{}_0F_8\left(;\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{7}{5},\frac{3}{2},\frac{8}{5},\frac{17}{10},\frac{9}{5};-\frac{x^{10}}{100000000000t}\right)}{80640\sqrt{10\left(\sqrt{5}+5\right)}\pi t^{7/10}}-$$
$$\frac{11i\left(4\sqrt[5]{-1}\sqrt{5-\sqrt{5}}-\left(\sqrt{5}+1\right)\sqrt{\sqrt{5}+5}\right)x^8\,{}_0F_8\left(;\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{7}{5},\frac{3}{2},\frac{8}{5},\frac{17}{10},\frac{9}{5};-\frac{x^{10}}{100000000000t}\right)}{80640000\sqrt{2}t^{7/10}\Gamma\left(\frac{21}{10}\right)}-$$
$$\left.\frac{5\left(-\frac{1}{2}\right)^{3/10}\sqrt{\frac{5-\sqrt{5}}{\pi}}x^8\Gamma\left(\frac{19}{5}\right)\,{}_0F_8\left(;\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{7}{5},\frac{3}{2},\frac{8}{5},\frac{17}{10},\frac{9}{5};-\frac{x^{10}}{100000000000t}\right)}{8128512t^{7/10}\Gamma\left(\frac{2}{5}\right)}\right)$$

A.8: Using subordination integration between eqn (**S-7**) and the Gaussian, the PDF for

$\beta = \frac{1}{9}$ is as follows:

$$P(x,t) = \frac{1}{\sqrt[9]{t}}\left((-1)^{17/18}2^{8/9}\sqrt{\pi}\,\sqrt[18]{t}\cos\left(\frac{\pi}{9}\right)\cos\left(\frac{2\pi}{9}\right)\times \right.$$

$$\frac{{}_0F_{16}\left(;\frac{1}{9},\frac{1}{6},\frac{2}{9},\frac{5}{18},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18};-\frac{x^{18}}{39346408075296537575424t}\right)}{\Gamma\left(-\frac{4}{9}\right)\Gamma\left(\frac{8}{9}\right)}+$$

$$\frac{9\sqrt{x^2}\,{}_0F_{16}\left(;\frac{1}{6},\frac{2}{9},\frac{5}{18},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18};-\frac{x^{18}}{39346408075296537575424t}\right)}{2\Gamma\left(-\frac{1}{9}\right)}-$$

$$\frac{\left(x^2\right)^{3/2}\,{}_0F_{16}\left(;\frac{5}{18},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6};-\frac{x^{18}}{39346408075296537575424t}\right)}{12\,\sqrt[9]{t}\Gamma\left(\frac{7}{9}\right)}+$$

$$\frac{\sqrt[18]{-1}x^6\csc\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)\Gamma\left(\frac{7}{9}\right)\Gamma\left(\frac{10}{9}\right)\times}{1920\ 2^{7/9}\pi^{3/2}t^{5/18}}$$

$${}_0F_{16}\left(;\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3};-\frac{x^{18}}{39346408075296537575424t}\right)-$$

$$\frac{(-1)^{17/18}x^6\csc^2\left(\frac{\pi}{9}\right)\csc^2\left(\frac{2\pi}{9}\right)\Gamma\left(\frac{7}{9}\right)\Gamma\left(\frac{10}{9}\right)\times}{7680\ 2^{7/9}\pi^{3/2}t^{5/18}}$$

$${}_0F_{16}\left(;\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3};-\frac{x^{18}}{39346408075296537575424t}\right)-$$

$$\frac{\left(x^2\right)^{15/2}\,{}_0F_{16}\left(;\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18},\frac{16}{9},\frac{11}{6};-\frac{x^{18}}{39346408075296537575424t}\right)}{2615348736000t^{7/9}\Gamma\left(\frac{1}{9}\right)}+$$

$$\frac{\sqrt[18]{-1}\sqrt{\pi}x^{16}\cos\left(\frac{\pi}{9}\right)\cos\left(\frac{2\pi}{9}\right)\times}{52960811904000\ 2^{8/9}t^{5/6}\Gamma\left(\frac{1}{9}\right)\Gamma\left(\frac{13}{9}\right)}$$

$${}_0F_{16}\left(;\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18},\frac{16}{9},\frac{11}{6},\frac{17}{9};-\frac{x^{18}}{39346408075296537575424t}\right)+$$

$$\frac{\sqrt[18]{-1}x^8\cot\left(\frac{\pi}{9}\right)\cot\left(\frac{2\pi}{9}\right)\csc\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)\times}{1935360\sqrt{\pi}t^{7/18}}$$

$$\sec\left(\tfrac{\pi}{18}\right){}_0F_{16}\left(;\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9};-\frac{x^{18}}{39346408075296537575424t}\right)-$$

$$\frac{(-1)^{17/18}x^8\cot\left(\frac{\pi}{9}\right)\cot\left(\frac{2\pi}{9}\right)\csc\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)\times}{1935360\sqrt{\pi}t^{7/18}}$$

$$\sec\left(\tfrac{\pi}{18}\right){}_0F_{16}\left(;\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9};-\frac{x^{18}}{39346408075296537575424t}\right)-$$

$$\frac{(-1)^{17/18}x^{12}\cos\left(\frac{2\pi}{9}\right)\cot\left(\frac{\pi}{9}\right)\Gamma\left(\frac{13}{18}\right)\times}{2874009600\sqrt{3}\pi t^{11/18}}$$

$$\sec\left(\tfrac{\pi}{18}\right){}_0F_{16}\left(;\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3};-\frac{x^{18}}{39346408075296537575424t}\right)+$$

$$\frac{\sqrt[18]{-1}x^{12}\cot\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)\times}{20692869120t^{11/18}\Gamma\left(\frac{23}{18}\right)}$$

$$\sec\left(\tfrac{\pi}{18}\right){}_0F_{16}\left(;\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3};-\frac{x^{18}}{39346408075296537575424t}\right)+$$

$$\frac{\sqrt[18]{-1}x^{14}\cos\left(\frac{2\pi}{9}\right)\cot\left(\frac{\pi}{9}\right)\times}{1345036492800\sqrt{3}t^{13/18}\Gamma\left(\frac{13}{6}\right)}$$

$$\sec\left(\tfrac{\pi}{18}\right){}_0F_{16}\left(;\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18},\frac{16}{9};-\frac{x^{18}}{39346408075296537575424t}\right)-$$

$$\frac{\left(x^2\right)^{5/2}\csc\left(\frac{\pi}{18}\right)\sec\left(\frac{\pi}{9}\right)\sec\left(\frac{2\pi}{9}\right)\times}{1920t^{2/9}\Gamma\left(\frac{2}{3}\right)}$$

$${}_0F_{16}\left(;\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18};-\frac{x^{18}}{39346408075296537575424t}\right)-$$

$$(x^2)^{11/2}\csc\left(\frac{\pi}{18}\right)\sec\left(\frac{\pi}{9}\right)\sec\left(\frac{2\pi}{9}\right)\times$$
$$\frac{{}_0F_{16}\left(;\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18};-\frac{x^{18}}{39346408075296537575424t}\right)}{709632000t^{5/9}\Gamma\left(-\frac{5}{3}\right)}-$$

$$(x^2)^{13/2}\csc\left(\frac{\pi}{18}\right)\sec\left(\frac{\pi}{9}\right)\sec\left(\frac{2\pi}{9}\right)\times$$
$$\frac{{}_0F_{16}\left(;\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18};-\frac{x^{18}}{39346408075296537575424t}\right)}{137763225600t^{2/3}\Gamma\left(-\frac{16}{9}\right)}+$$
$$(-1)^{11/18}\sqrt{3}\sqrt[18]{t}\cot\left(\frac{2\pi}{9}\right)\csc\left(\frac{\pi}{9}\right)\Gamma\left(\frac{19}{18}\right)\times$$
$$\frac{\sin\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{1}{9},\frac{1}{6},\frac{2}{9},\frac{5}{18},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18};-\frac{x^{18}}{39346408075296537575424t}\right)}{\pi}+$$
$$(-1)^{5/6}x^2\csc^2\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)\Gamma\left(\frac{7}{6}\right)\times$$
$$\frac{\sin\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{2}{9},\frac{5}{18},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9};-\frac{x^{18}}{39346408075296537575424t}\right)}{8\pi\sqrt[18]{t}}+$$
$$3\sqrt[6]{-1}\sqrt{3}x^4\csc^2\left(\frac{\pi}{9}\right)\Gamma\left(\frac{11}{9}\right)\times$$
$$\frac{\sin\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9};-\frac{x^{18}}{39346408075296537575424t}\right)}{16\ 2^{2/3}\sqrt[6]{t}\Gamma\left(-\frac{1}{9}\right)\Gamma\left(\frac{1}{18}\right)}-$$
$$3(-1)^{7/18}\sqrt{3}x^4\csc\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)\Gamma\left(\frac{11}{9}\right)\times$$
$$\frac{\sin\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9};-\frac{x^{18}}{39346408075296537575424t}\right)}{16\ 2^{2/3}\sqrt[6]{t}\Gamma\left(-\frac{1}{9}\right)\Gamma\left(\frac{1}{18}\right)}-$$
$$9\sqrt[6]{-1}\sqrt{\frac{3}{\pi}}x^6\csc\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)\Gamma\left(\frac{10}{9}\right)\times$$
$$\frac{\sin\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3};-\frac{x^{18}}{39346408075296537575424t}\right)}{17920\ 2^{7/9}t^{5/18}\Gamma\left(-\frac{16}{9}\right)}+$$
$$ix^6\csc\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)\Gamma\left(\frac{5}{9}\right)\times$$
$$\frac{\sin\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3};-\frac{x^{18}}{39346408075296537575424t}\right)}{3456\sqrt[3]{2}\sqrt{3}t^{5/18}\Gamma\left(-\frac{1}{9}\right)\Gamma\left(\frac{23}{18}\right)}+$$
$$(-1)^{13/18}\sqrt{\pi}x^{10}\times$$
$$\frac{\sin\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9};-\frac{x^{18}}{39346408075296537575424t}\right)}{7257600\ 2^{2/9}\sqrt{t}\Gamma\left(-\frac{8}{9}\right)\Gamma\left(\frac{7}{9}\right)}-$$
$$i\sqrt{\pi}x^{10}\cos\left(\frac{2\pi}{9}\right)\times$$
$$\frac{\sin\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9};-\frac{x^{18}}{39346408075296537575424t}\right)}{7257600\ 2^{2/9}\sqrt{t}\Gamma\left(-\frac{8}{9}\right)\Gamma\left(\frac{7}{9}\right)}+$$
$$(-1)^{7/18}\sqrt{\pi}x^{10}\cos\left(\frac{2\pi}{9}\right)\times$$
$$\frac{\sin\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9};-\frac{x^{18}}{39346408075296537575424t}\right)}{3628800\ 2^{2/9}\sqrt{t}\Gamma\left(-\frac{8}{9}\right)\Gamma\left(\frac{7}{9}\right)}-$$
$$i\sqrt{\pi}x^{12}\cos\left(\frac{\pi}{9}\right)\times$$
$$\frac{\sin\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3};-\frac{x^{18}}{39346408075296537575424t}\right)}{662323200\ 2^{4/9}t^{11/18}\Gamma\left(-\frac{16}{9}\right)\Gamma\left(-\frac{4}{9}\right)}+$$

$$(-1)^{5/18}x^{12}\cot\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)\Gamma\left(\frac{13}{18}\right)\times$$
$$\frac{\sin\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3};-\frac{x^{18}}{39346408075296537575424t}\right)}{2874009600\sqrt{3}\pi t^{11/18}}-$$

$$\frac{(-1)^{7/18}x^{12}\sin\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3};-\frac{x^{18}}{39346408075296537575424t}\right)}{2586608640\sqrt{3}t^{11/18}\Gamma\left(\frac{23}{18}\right)}-$$

$$\sqrt[6]{-1}x^{12}\cot\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)\times$$
$$\frac{\sin\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3};-\frac{x^{18}}{39346408075296537575424t}\right)}{5173217280\sqrt{3}t^{11/18}\Gamma\left(\frac{23}{18}\right)}+$$

$$i\sqrt{\pi}x^{14}\cos\left(\frac{\pi}{9}\right)\cos\left(\frac{2\pi}{9}\right)\times$$
$$\frac{\sin\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18},\frac{16}{9};-\frac{x^{18}}{39346408075296537575424t}\right)}{121080960000\ 2^{2/3}t^{13/18}\Gamma\left(-\frac{5}{3}\right)^2}-$$

$$(-1)^{7/18}x^{14}\cot\left(\frac{2\pi}{9}\right)\csc\left(\frac{\pi}{9}\right)\times$$
$$\frac{\sin\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18},\frac{16}{9};-\frac{x^{18}}{39346408075296537575424t}\right)}{1345036492800\sqrt{3}t^{13/18}\Gamma\left(\frac{13}{6}\right)}+$$

$$(-1)^{5/18}x^{14}\cot\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)\times$$

$$\frac{\sin\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18},\frac{16}{9};-\frac{x^{18}}{39346408075296537575424t}\right)}{1345036492800\sqrt{3}t^{13/18}\Gamma\left(\frac{13}{6}\right)}-$$

$$(-1)^{7/18}x^{16}\cot\left(\frac{2\pi}{9}\right)\csc\left(\frac{\pi}{9}\right)\Gamma\left(\frac{26}{9}\right)\times$$
$$\frac{\sin\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18},\frac{16}{9},\frac{11}{6},\frac{17}{9};-\frac{x^{18}}{39346408075296537575424t}\right)}{105388867584000\ 2^{8/9}\sqrt{3\pi}t^{5/6}\Gamma\left(\frac{4}{9}\right)}-$$

$$(-1)^{17/18}x^{14}\cos\left(\frac{\pi}{9}\right)\cos\left(\frac{2\pi}{9}\right)\times$$
$$\frac{\sin\left(\frac{\pi}{9}\right){}_0F_{16}\left(;\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18},\frac{16}{9};-\frac{x^{18}}{39346408075296537575424t}\right)}{504388684800t^{13/18}\Gamma\left(\frac{13}{6}\right)}+$$

$$\left(x^2\right)^{7/2}\csc\left(\frac{\pi}{18}\right)\times$$
$$\frac{\sin\left(\frac{\pi}{9}\right)\sec\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18};-\frac{x^{18}}{39346408075296537575424t}\right)}{8960\sqrt[3]{t}\Gamma\left(-\frac{4}{9}\right)}-$$

$$\left(x^2\right)^{9/2}\sin\left(\frac{\pi}{9}\right)\csc\left(\frac{\pi}{18}\right)\csc\left(\frac{2\pi}{9}\right)\sec\left(\frac{2\pi}{9}\right)\times$$
$$\frac{{}_0F_{16}\left(;\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2};-\frac{x^{18}}{39346408075296537575424t}\right)}{2903040t^{4/9}\Gamma\left(\frac{4}{9}\right)}-$$

$$(-1)^{11/18}x^{12}\sin\left(\frac{\pi}{18}\right)\sin\left(\frac{\pi}{9}\right)\times$$
$$\frac{{}_0F_{16}\left(;\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3};-\frac{x^{18}}{39346408075296537575424t}\right)}{3879912960t^{11/18}\Gamma\left(\frac{23}{18}\right)}+$$

$$(-1)^{5/6}x^{12}\sin\left(\frac{\pi}{18}\right)\sin\left(\frac{\pi}{9}\right)\cos\left(\frac{\pi}{9}\right)\times$$
$$\frac{{}_0F_{16}\left(;\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3};-\frac{x^{18}}{39346408075296537575424t}\right)}{1939956480t^{11/18}\Gamma\left(\frac{23}{18}\right)}+$$

$$(-1)^{13/18}x^{14}\sin\left(\frac{\pi}{18}\right)\sin\left(\frac{\pi}{9}\right)\cos\left(\frac{\pi}{9}\right)\times$$
$$\frac{{}_0F_{16}\left(;\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18},\frac{16}{9};-\frac{x^{18}}{39346408075296537575424t}\right)}{504388684800t^{13/18}\Gamma\left(\frac{13}{6}\right)}-$$

$$(-1)^{11/18}x^{14}\sin\left(\frac{\pi}{18}\right)\sin\left(\frac{2\pi}{9}\right)\cos\left(\frac{2\pi}{9}\right)\times$$
$$\frac{{}_0F_{16}\left(;\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18},\frac{16}{9};-\frac{x^{18}}{39346408075296537575424t}\right)}{504388684800t^{13/18}\Gamma\left(\frac{13}{6}\right)}-$$

$$\frac{x^{16}}{753220435968000t^{5/6}\Gamma\left(\frac{1}{18}\right)}\times$$
$${}_0F_{16}\left(;\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18},\frac{16}{9},\frac{11}{6},\frac{17}{9};-\frac{x^{18}}{39346408075296537575424t}\right)\times$$
$$\left(-16(-1)^{13/18}\cos\left(\frac{\pi}{9}\right)+8(-1)^{11/18}\sqrt{3}\cot\left(\frac{2\pi}{9}\right)-2i\sqrt{3}\cot\left(\frac{\pi}{9}\right)\cot\left(\frac{2\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)+\right.$$
$$4\sqrt[6]{-1}\sqrt{3}\cot\left(\frac{\pi}{9}\right)\cot\left(\frac{2\pi}{9}\right)\sec\left(\frac{\pi}{18}\right)-3(-1)^{5/18}\cot\left(\frac{\pi}{9}\right)\csc^2\left(\frac{2\pi}{9}\right)\sec\left(\frac{\pi}{18}\right)+$$
$$\left.32(-1)^{5/6}\sin\left(\frac{\pi}{9}\right)\cos\left(\frac{\pi}{9}\right)\cot\left(\frac{2\pi}{9}\right)\right)\sin\left(\frac{2\pi}{9}\right)+$$

$$\frac{1}{\Gamma\left(-\frac{1}{18}\right)}\left(4(-1)^{13/18}\sqrt{3}\sqrt[18]{t}\cos\left(\frac{\pi}{9}\right)\times\right.$$
$${}_0F_{16}\left(;\frac{1}{9},\frac{1}{6},\frac{2}{9},\frac{5}{18},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18};-\frac{x^{18}}{39346408075296537575424t}\right)+$$
$$i\sqrt{3}\sqrt[18]{t}\cot\left(\frac{\pi}{9}\right)\cot\left(\frac{2\pi}{9}\right)\times$$
$${}_0F_{16}\left(;\frac{1}{9},\frac{1}{6},\frac{2}{9},\frac{5}{18},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18};-\frac{x^{18}}{39346408075296537575424t}\right)+$$
$$(-1)^{5/18}\sqrt{3}\sqrt[18]{t}\cot\left(\frac{\pi}{9}\right)\times$$
$$\sec\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{1}{9},\frac{1}{6},\frac{2}{9},\frac{5}{18},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18};-\frac{x^{18}}{39346408075296537575424t}\right)-$$
$$\frac{3}{2}(-1)^{7/18}\sqrt[18]{t}\cot\left(\frac{2\pi}{9}\right)\csc\left(\frac{\pi}{9}\right)\times$$
$$\sec\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{1}{9},\frac{1}{6},\frac{2}{9},\frac{5}{18},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18};-\frac{x^{18}}{39346408075296537575424t}\right)-$$
$$16\sqrt[6]{-1}\sqrt[18]{t}\cos\left(\frac{\pi}{9}\right)\cos\left(\frac{2\pi}{9}\right)\times$$
$$\sin\left(\frac{\pi}{9}\right){}_0F_{16}\left(;\frac{1}{9},\frac{1}{6},\frac{2}{9},\frac{5}{18},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18};-\frac{x^{18}}{39346408075296537575424t}\right)-$$
$$16(-1)^{5/6}\sqrt[18]{t}\cos\left(\frac{\pi}{9}\right)\cos\left(\frac{2\pi}{9}\right)\times$$
$$\left.\sin\left(\frac{2\pi}{9}\right){}_0F_{16}\left(;\frac{1}{9},\frac{1}{6},\frac{2}{9},\frac{5}{18},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18};-\frac{x^{18}}{39346408075296537575424t}\right)\right)+$$

$$\frac{(-1)^{5/18}x^6\tan\left(\frac{\pi}{18}\right)\csc\left(\frac{\pi}{9}\right)\Gamma\left(\frac{7}{18}\right){}_0F_{16}\left(;\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3};-\frac{x^{18}}{39346408075296537575424t}\right)}{8640\sqrt{3}\pi t^{5/18}}+$$

$$(-1)^{5/6}x^6\csc^2\left(\frac{\pi}{9}\right)\csc^2\left(\frac{2\pi}{9}\right)\Gamma\left(\frac{19}{9}\right)\times$$
$$\frac{\tan\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3};-\frac{x^{18}}{39346408075296537575424t}\right)}{15360\sqrt[3]{2}t^{5/18}\Gamma\left(\frac{4}{9}\right)\Gamma\left(\frac{23}{18}\right)}+$$
$$\frac{(-1)^{5/18}x^8\tan\left(\frac{\pi}{18}\right)\cot\left(\frac{\pi}{9}\right){}_0F_{16}\left(;\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9};-\frac{x^{18}}{39346408075296537575424t}\right)}{241920\sqrt{3\pi}t^{7/18}}-$$
$$\frac{(-1)^{7/18}x^8\tan\left(\frac{\pi}{18}\right)\cot\left(\frac{2\pi}{9}\right){}_0F_{16}\left(;\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9};-\frac{x^{18}}{39346408075296537575424t}\right)}{241920\sqrt{3\pi}t^{7/18}}+$$
$$\frac{(-1)^{11/18}x^8\tan\left(\frac{\pi}{18}\right)\cot\left(\frac{2\pi}{9}\right){}_0F_{16}\left(;\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9};-\frac{x^{18}}{39346408075296537575424t}\right)}{241920\sqrt{3\pi}t^{7/18}}-$$

$$\sqrt[6]{-1}x^8\cot\left(\frac{\pi}{9}\right)\cot\left(\frac{2\pi}{9}\right)\times$$
$$\frac{\tan\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9};-\frac{x^{18}}{39346408075296537575424t}\right)}{241920\sqrt{\pi}t^{7/18}}-$$

$$\sqrt[6]{-1}x^{14}\cot\left(\frac{\pi}{9}\right)\cot\left(\frac{2\pi}{9}\right)\Gamma\left(\frac{5}{3}\right)\times$$
$$\frac{\tan\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18},\frac{16}{9};-\frac{x^{18}}{39346408075296537575424t}\right)}{193729536000\ 2^{2/3}\sqrt{\pi}t^{13/18}\Gamma\left(-\frac{5}{3}\right)}+$$

$$27(-1)^{11/18}x^6\cot\left(\frac{2\pi}{9}\right)\csc\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)\Gamma\left(\frac{10}{9}\right)\times$$
$$\frac{\tan\left(\frac{\pi}{18}\right)\sec\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3};-\frac{x^{18}}{39346408075296537575424t}\right)}{71680\ 2^{7/9}\sqrt{\pi}t^{5/18}\Gamma\left(-\frac{16}{9}\right)}-$$

$$(-1)^{13/18}x^6\csc^2\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)\Gamma\left(\frac{7}{9}\right)\Gamma\left(\frac{10}{9}\right)\times$$
$$\frac{\tan\left(\frac{\pi}{18}\right)\sec\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3};-\frac{x^{18}}{39346408075296537575424t}\right)}{2560\ 2^{7/9}\sqrt{3}\pi^{3/2}t^{5/18}}-$$

$$(-1)^{13/18}x^8\cot\left(\frac{\pi}{9}\right)\csc\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)\times$$
$$\frac{\tan\left(\frac{\pi}{18}\right)\sec\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9};-\frac{x^{18}}{39346408075296537575424t}\right)}{1935360\sqrt{\pi}t^{7/18}}+$$

$$(-1)^{5/6}x^8\cot\left(\frac{\pi}{9}\right)\cot\left(\frac{2\pi}{9}\right)\csc\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)$$
$$\frac{\tan\left(\frac{\pi}{18}\right)\sec\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9};-\frac{x^{18}}{39346408075296537575424t}\right)}{645120\sqrt{3}\pi t^{7/18}}-$$

$$x^4\Gamma\left(\frac{23}{18}\right)\left(3(-1)^{13/18}\tan\left(\frac{\pi}{18}\right)\csc^3\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)-4\sqrt[18]{-1}\sqrt{3}\csc^2\left(\frac{\pi}{9}\right)\right)\times$$
$$\frac{{}_0F_{16}\left(;\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9};-\frac{x^{18}}{39346408075296537575424t}\right)}{1920\pi\sqrt[6]{t}}+$$

$$\frac{1}{1152\sqrt[18]{t}\Gamma\left(\frac{5}{6}\right)}\left(-16(-1)^{17/18}\sqrt{3}x^2\csc^2\left(\frac{\pi}{9}\right)\times\right.$$
$$\left.{}_0F_{16}\left(;\frac{2}{9},\frac{5}{18},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9};-\frac{x^{18}}{39346408075296537575424t}\right)+\right.$$
$$16\sqrt[18]{-1}\sqrt{3}x^2\csc\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)\times$$
$${}_0F_{16}\left(;\frac{2}{9},\frac{5}{18},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9};-\frac{x^{18}}{39346408075296537575424t}\right)+$$
$$12(-1)^{11/18}x^2\csc^2\left(\frac{\pi}{9}\right)\csc^3\left(\frac{2\pi}{9}\right)\times$$
$$\sin\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{2}{9},\frac{5}{18},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9};-\frac{x^{18}}{39346408075296537575424t}\right)-$$
$$32(-1)^{5/18}\sqrt{3}x^2\csc\left(\frac{\pi}{9}\right)\times$$
$$\tan\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{2}{9},\frac{5}{18},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9};-\frac{x^{18}}{39346408075296537575424t}\right)-$$
$$12(-1)^{13/18}x^2\csc^3\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)\times$$
$$\tan\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{2}{9},\frac{5}{18},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9};-\frac{x^{18}}{39346408075296537575424t}\right)+$$
$$12(-1)^{7/18}x^2\csc^2\left(\frac{\pi}{9}\right)\csc^2\left(\frac{2\pi}{9}\right)\times$$
$$\tan\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{2}{9},\frac{5}{18},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9};-\frac{x^{18}}{39346408075296537575424t}\right)-$$
$$3i\sqrt{3}x^2\csc^3\left(\frac{\pi}{9}\right)\csc^2\left(\frac{2\pi}{9}\right)\times$$
$$\frac{1}{4608\pi^{3/2}\sqrt[6]{t}}\Gamma\left(\frac{2}{9}\right)\Gamma\left(\frac{5}{9}\right)\left(-4(-1)^{17/18}2^{4/9}x^4\csc^2\left(\frac{\pi}{9}\right)\times\right.$$

$$
{}_0F_{16}\left(;\tfrac{1}{3},\tfrac{7}{18},\tfrac{4}{9},\tfrac{1}{2},\tfrac{5}{9},\tfrac{11}{18},\tfrac{2}{3},\tfrac{13}{18},\tfrac{7}{9},\tfrac{5}{6},\tfrac{8}{9},\tfrac{17}{18},\tfrac{19}{18},\tfrac{10}{9},\tfrac{7}{6},\tfrac{11}{9};-\frac{x^{18}}{39346408075296537575424t}\right)+
$$
$$
2(-1)^{5/6}2^{4/9}x^4\csc^3\left(\tfrac{\pi}{9}\right)\csc\left(\tfrac{2\pi}{9}\right)\times
$$
$$
\sin\left(\tfrac{\pi}{18}\right){}_0F_{16}\left(;\tfrac{1}{3},\tfrac{7}{18},\tfrac{4}{9},\tfrac{1}{2},\tfrac{5}{9},\tfrac{11}{18},\tfrac{2}{3},\tfrac{13}{18},\tfrac{7}{9},\tfrac{5}{6},\tfrac{8}{9},\tfrac{17}{18},\tfrac{19}{18},\tfrac{10}{9},\tfrac{7}{6},\tfrac{11}{9};-\frac{x^{18}}{39346408075296537575424t}\right)-
$$
$$
i2^{4/9}x^4\csc^3\left(\tfrac{\pi}{9}\right)\times
$$
$$
\tan\left(\tfrac{\pi}{18}\right){}_0F_{16}\left(;\tfrac{1}{3},\tfrac{7}{18},\tfrac{4}{9},\tfrac{1}{2},\tfrac{5}{9},\tfrac{11}{18},\tfrac{2}{3},\tfrac{13}{18},\tfrac{7}{9},\tfrac{5}{6},\tfrac{8}{9},\tfrac{17}{18},\tfrac{19}{18},\tfrac{10}{9},\tfrac{7}{6},\tfrac{11}{9};-\frac{x^{18}}{39346408075296537575424t}\right)+
$$
$$
(-1)^{11/18}2^{4/9}\sqrt{3}x^4\csc^2\left(\tfrac{\pi}{9}\right)\csc^2\left(\tfrac{2\pi}{9}\right)\times
$$
$$
\tan\left(\tfrac{\pi}{18}\right){}_0F_{16}\left(;\tfrac{1}{3},\tfrac{7}{18},\tfrac{4}{9},\tfrac{1}{2},\tfrac{5}{9},\tfrac{11}{18},\tfrac{2}{3},\tfrac{13}{18},\tfrac{7}{9},\tfrac{5}{6},\tfrac{8}{9},\tfrac{17}{18},\tfrac{19}{18},\tfrac{10}{9},\tfrac{7}{6},\tfrac{11}{9};-\frac{x^{18}}{39346408075296537575424t}\right)\Big)-
$$
$$
\frac{1}{4353564672\sqrt{t}\Gamma\left(\frac{61}{18}\right)}43\left(-2\sqrt[18]{-1}\sqrt{3}x^{10}\cot\left(\tfrac{2\pi}{9}\right)\csc\left(\tfrac{\pi}{9}\right)\times\right.
$$
$$
{}_0F_{16}\left(;\tfrac{2}{3},\tfrac{13}{18},\tfrac{7}{9},\tfrac{5}{6},\tfrac{8}{9},\tfrac{17}{18},\tfrac{19}{18},\tfrac{10}{9},\tfrac{7}{6},\tfrac{11}{9},\tfrac{23}{18},\tfrac{4}{3},\tfrac{25}{18},\tfrac{13}{9},\tfrac{3}{2},\tfrac{14}{9};-\frac{x^{18}}{39346408075296537575424t}\right)+
$$
$$
3(-1)^{17/18}x^{10}\cot\left(\tfrac{2\pi}{9}\right)\csc\left(\tfrac{\pi}{9}\right)\times
$$
$$
\sec\left(\tfrac{\pi}{18}\right){}_0F_{16}\left(;\tfrac{2}{3},\tfrac{13}{18},\tfrac{7}{9},\tfrac{5}{6},\tfrac{8}{9},\tfrac{17}{18},\tfrac{19}{18},\tfrac{10}{9},\tfrac{7}{6},\tfrac{11}{9},\tfrac{23}{18},\tfrac{4}{3},\tfrac{25}{18},\tfrac{13}{9},\tfrac{3}{2},\tfrac{14}{9};-\frac{x^{18}}{39346408075296537575424t}\right)-
$$
$$
8(-1)^{5/18}\sqrt{3}x^{10}\times
$$
$$
\sin\left(\tfrac{\pi}{18}\right){}_0F_{16}\left(;\tfrac{2}{3},\tfrac{13}{18},\tfrac{7}{9},\tfrac{5}{6},\tfrac{8}{9},\tfrac{17}{18},\tfrac{19}{18},\tfrac{10}{9},\tfrac{7}{6},\tfrac{11}{9},\tfrac{23}{18},\tfrac{4}{3},\tfrac{25}{18},\tfrac{13}{9},\tfrac{3}{2},\tfrac{14}{9};-\frac{x^{18}}{39346408075296537575424t}\right)+
$$
$$
4\sqrt[6]{-1}\sqrt{3}x^{10}\cot\left(\tfrac{2\pi}{9}\right)\csc\left(\tfrac{\pi}{9}\right)\times
$$
$$
\sin\left(\tfrac{\pi}{18}\right){}_0F_{16}\left(;\tfrac{2}{3},\tfrac{13}{18},\tfrac{7}{9},\tfrac{5}{6},\tfrac{8}{9},\tfrac{17}{18},\tfrac{19}{18},\tfrac{10}{9},\tfrac{7}{6},\tfrac{11}{9},\tfrac{23}{18},\tfrac{4}{3},\tfrac{25}{18},\tfrac{13}{9},\tfrac{3}{2},\tfrac{14}{9};-\frac{x^{18}}{39346408075296537575424t}\right)-
$$
$$
4(-1)^{5/6}\sqrt{3}x^{10}\cos\left(\tfrac{2\pi}{9}\right)\csc\left(\tfrac{\pi}{9}\right)\times
$$
$$
\left.\tan\left(\tfrac{\pi}{18}\right){}_0F_{16}\left(;\tfrac{2}{3},\tfrac{13}{18},\tfrac{7}{9},\tfrac{5}{6},\tfrac{8}{9},\tfrac{17}{18},\tfrac{19}{18},\tfrac{10}{9},\tfrac{7}{6},\tfrac{11}{9},\tfrac{23}{18},\tfrac{4}{3},\tfrac{25}{18},\tfrac{13}{9},\tfrac{3}{2},\tfrac{14}{9};-\frac{x^{18}}{39346408075296537575424t}\right)\right)\Big)
$$

3. Flux solutions

The subordination integration used in the previous section can be repeated to obtain the flux solutions. The only difference in this integration is that the Gaussian is replaced with the flux of the following form: $F(x,t)=\frac{1}{4\sqrt{\pi}t^{\frac{3}{4}}}\exp\left(-\frac{x^2}{4t}\right)x$.

B.1: Flux solution for $\beta=\frac{4}{5}$:

$$
F(x,t)=\left(\frac{1}{8\sqrt{\pi}t^{8/5}\Gamma\left(-\frac{7}{5}\right)}x\left(\frac{20}{21}2^{3/5}t^{6/5}\Gamma\left(\tfrac{13}{10}\right){}_2F_7\left(\tfrac{11}{20},\tfrac{21}{20};\tfrac{1}{5},\tfrac{2}{5},\tfrac{1}{2},\tfrac{3}{5},\tfrac{7}{10},\tfrac{9}{10},\tfrac{11}{10};\frac{x^{10}}{39062500t^4}\right)+\right.\right.
$$
$$
\tfrac{1}{6}\sqrt{\pi}|x|^3{}_2F_7\left(\tfrac{17}{20},\tfrac{27}{20};\tfrac{1}{2},\tfrac{7}{10},\tfrac{4}{5},\tfrac{9}{10},\tfrac{6}{5},\tfrac{13}{10},\tfrac{7}{5};\frac{x^{10}}{39062500t^4}\right)-\frac{3\left(\sqrt{5}+3\right)}{560t^{2/5}}
$$
$$
\sqrt{\frac{10-2\sqrt{5}}{\pi}}x^4\Gamma\left(\tfrac{3}{5}\right)\Gamma\left(\tfrac{9}{5}\right){}_2F_7\left(\tfrac{19}{20},\tfrac{29}{20};\tfrac{3}{5},\tfrac{4}{5},\tfrac{9}{10},\tfrac{11}{10},\tfrac{13}{10},\tfrac{7}{5},\tfrac{3}{2};\frac{x^{10}}{39062500t^4}\right)+
$$
$$
\frac{13\sqrt{\frac{10-2\sqrt{5}}{\pi}}x^6\Gamma\left(\frac{3}{5}\right)^2{}_2F_7\left(\frac{23}{20},\frac{33}{20};\frac{4}{5},\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{3}{2},\frac{8}{5},\frac{17}{10};\frac{x^{10}}{39062500t^4}\right)}{36750t^{6/5}}-
$$
$$
\frac{17\sqrt{\pi}x^8{}_2F_7\left(\frac{27}{20},\frac{37}{20};\frac{6}{5},\frac{13}{10},\frac{7}{5},\frac{3}{2},\frac{17}{10},\frac{9}{5},\frac{19}{10};\frac{x^{10}}{39062500t^4}\right)}{945000t^2}-
$$
$$
\left.\left.\tfrac{5}{42}\left(\sqrt{5}+1\right)\sqrt{\frac{\sqrt{5}+5}{2\pi}}t^{2/5}x^2\Gamma\left(\tfrac{3}{5}\right){}_3F_8\left(\tfrac{3}{4},1,\tfrac{5}{4};\tfrac{2}{5},\tfrac{3}{5},\tfrac{7}{10},\tfrac{4}{5},\tfrac{9}{10},\tfrac{11}{10},\tfrac{6}{5},\tfrac{13}{10};\frac{x^{10}}{39062500t^4}\right)\right)\right)+
$$
$$
\frac{1}{4\sqrt{\pi}\Gamma\left(\frac{1}{5}\right)}x\left(\frac{2\sqrt{\pi}\,{}_2F_7\left(\frac{9}{20},\frac{19}{20};\frac{1}{10},\frac{3}{10},\frac{2}{5},\frac{1}{2},\frac{3}{5},\frac{4}{5},\frac{9}{10};\frac{x^{10}}{39062500t^4}\right)}{|x|}-\right.
$$

$$\frac{5\left(\sqrt{5}+1\right)\sqrt{\pi}\Gamma\left(\frac{16}{5}\right){}_2F_7\left(\frac{11}{20},\frac{21}{20};\frac{1}{5},\frac{2}{5},\frac{1}{2},\frac{3}{5},\frac{7}{10},\frac{9}{10},\frac{11}{10};\frac{x^{10}}{39062500t^4}\right)}{33t^{2/5}\Gamma\left(\frac{4}{5}\right)}-$$
$$\frac{3\sqrt{\pi}x^4\,{}_2F_7\left(\frac{19}{20},\frac{29}{20};\frac{3}{5},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{13}{10},\frac{7}{5},\frac{3}{2};\frac{x^{10}}{39062500t^4}\right)}{625t^2}+$$
$$\frac{\left(\sqrt{5}-1\right)\sqrt{\pi}x^6\Gamma\left(\frac{28}{5}\right){}_2F_7\left(\frac{23}{20},\frac{33}{20};\frac{4}{5},\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{3}{2},\frac{8}{5},\frac{17}{10};\frac{x^{10}}{39062500t^4}\right)}{208656t^{14/5}\Gamma\left(\frac{4}{5}\right)}+$$
$$\frac{17x^8\Gamma\left(-\frac{9}{10}\right){}_2F_7\left(\frac{27}{20},\frac{37}{20};\frac{6}{5},\frac{13}{10},\frac{7}{5},\frac{3}{2},\frac{17}{10},\frac{9}{5},\frac{19}{10};\frac{x^{10}}{39062500t^4}\right)}{1875000\ 2^{4/5}t^{18/5}}+$$
$$\left.\frac{\left(\sqrt{5}-1\right)\sqrt{\pi}x^2\,{}_3F_8\left(\frac{3}{4},1,\frac{5}{4};\frac{2}{5},\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5},\frac{13}{10};\frac{x^{10}}{39062500t^4}\right)}{15t^{6/5}\Gamma\left(\frac{4}{5}\right)}\right)+$$
$$\frac{1}{5987520000\sqrt{5-\sqrt{5}}\left(\sqrt{5}+3\right)\pi t^{18/5}\Gamma\left(-\frac{3}{5}\right)}\sqrt{5}+)|x|\left(-337500000\sqrt{2}\left(3\sqrt{5}+5\right)t^{16/5}\Gamma\left(\frac{12}{5}\right)\right.$$
$$\Gamma\left(\frac{16}{5}\right)\,{}_2F_7\left(\frac{11}{20},\frac{21}{20};\frac{1}{5},\frac{2}{5},\frac{1}{2},\frac{3}{5},\frac{7}{10},\frac{9}{10},\frac{11}{10};\frac{x^{10}}{39062500t^4}\right)+$$
$$21384000\sqrt{10}t^{8/5}x^4\Gamma\left(\frac{4}{5}\right)\Gamma\left(\frac{12}{5}\right)\,{}_2F_7\left(\frac{19}{20},\frac{29}{20};\frac{3}{5},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{13}{10},\frac{7}{5},\frac{3}{2};\frac{x^{10}}{39062500t^4}\right)-$$
$$247104\sqrt{5-\sqrt{5}}\left(\sqrt{5}+1\right)\pi t^{4/5}x^6\,{}_2F_7\left(\frac{23}{20},\frac{33}{20};\frac{4}{5},\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{3}{2},\frac{8}{5},\frac{17}{10};\frac{x^{10}}{39062500t^4}\right)+$$
$$1375\sqrt{2}x^2\Gamma\left(\frac{17}{5}\right)\left(17\sqrt{5}x^6\Gamma\left(\frac{7}{5}\right)\,{}_2F_7\left(\frac{27}{20},\frac{37}{20};\frac{6}{5},\frac{13}{10},\frac{7}{5},\frac{3}{2},\frac{17}{10},\frac{9}{5},\frac{19}{10};\frac{x^{10}}{39062500t^4}\right)-\right.$$
$$\left.\left.45000\left(3\sqrt{5}+5\right)t^{12/5}\,{}_3F_8\left(\frac{3}{4},1,\frac{5}{4};\frac{2}{5},\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5},\frac{13}{10};\frac{x^{10}}{39062500t^4}\right)\right)\right)-$$
$$\frac{1}{3118500000\left(\sqrt{5}-5\right)\sqrt{\pi}t^{18/5}\Gamma\left(-\frac{11}{5}\right)\Gamma\left(\frac{13}{10}\right)\Gamma\left(\frac{16}{5}\right)}x\left(118125000\left(\sqrt{5}-5\right)\sqrt{\pi}t^{16/5}\Gamma\left(\frac{13}{10}\right)\Gamma\left(\frac{16}{5}\right)\right.$$
$${}_2F_7\left(\frac{11}{20},\frac{21}{20};\frac{1}{5},\frac{2}{5},\frac{1}{2},\frac{3}{5},\frac{7}{10},\frac{9}{10},\frac{11}{10};\frac{x^{10}}{39062500t^4}\right)+$$
$$1796256\ 2^{2/5}\sqrt{5}\pi t^{8/5}x^4\Gamma\left(-\frac{2}{5}\right)\,{}_2F_7\left(\frac{19}{20},\frac{29}{20};\frac{3}{5},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{13}{10},\frac{7}{5},\frac{3}{2};\frac{x^{10}}{39062500t^4}\right)+$$
$$x^2\Gamma\left(\frac{13}{10}\right)\left(-2165625\left(\sqrt{5}-5\right)\sqrt{\pi}t^{6/5}x^2\Gamma\left(\frac{16}{5}\right)|x|\,{}_2F_7\left(\frac{21}{20},\frac{31}{20};\frac{7}{10},\frac{9}{10},\frac{11}{10},\frac{6}{5},\frac{7}{5},\frac{3}{2},\frac{8}{5};\frac{x^{10}}{39062500t^4}\right)+\right.$$
$$247104\sqrt{5\pi}t^{4/5}x^4\Gamma\left(-\frac{2}{5}\right)\,{}_2F_7\left(\frac{23}{20},\frac{33}{20};\frac{4}{5},\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{3}{2},\frac{8}{5},\frac{17}{10};\frac{x^{10}}{39062500t^4}\right)+$$
$$62503\sqrt{5}-5\left(2^{2/5}x^6\Gamma\left(\frac{27}{10}\right)\Gamma\left(\frac{16}{5}\right)\,{}_2F_7\left(\frac{27}{20},\frac{37}{20};\frac{6}{5},\frac{13}{10},\frac{7}{5},\frac{3}{2},\frac{17}{10},\frac{9}{5},\frac{19}{10};\frac{x^{10}}{39062500t^4}\right)+\right.$$
$$\left.\left.\left.16632\sqrt{\pi}t^{12/5}\,{}_3F_8\left(\frac{3}{4},1,\frac{5}{4};\frac{2}{5},\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5},\frac{13}{10};\frac{x^{10}}{39062500t^4}\right)\right)\right)\right)\right)$$

B.2: Flux solution for $\beta=\frac{3}{4}$:

$$F(x,t)=\frac{1}{t^{3/4}}\left(\frac{1}{8\pi t^{3/4}}x\left(\frac{3^{5/8}t^{3/8}\Gamma\left(\frac{1}{8}\right)\Gamma\left(\frac{17}{24}\right)\Gamma\left(\frac{3}{4}\right)\Gamma\left(\frac{25}{24}\right){}_2F_6\left(\frac{17}{24},\frac{25}{24};\frac{1}{4},\frac{1}{2},\frac{5}{8},\frac{3}{4},\frac{7}{8},\frac{9}{8};-\frac{27x^8}{16777216t^3}\right)}{2^{3/4}\pi^{3/2}}-\right.$$
$$\sqrt{\pi}|x|\,{}_2F_6\left(\frac{5}{6},\frac{7}{6};\frac{3}{8},\frac{5}{8},\frac{3}{4},\frac{7}{8},\frac{9}{8},\frac{5}{4};-\frac{27x^8}{16777216t^3}\right)+$$
$$\frac{1}{2560\sqrt{2}t^{15/8}}\sqrt[8]{3}x^2\left(\frac{2560\sqrt[4]{3}t^{3/2}\Gamma\left(\frac{23}{24}\right)\Gamma\left(\frac{31}{24}\right){}_2F_6\left(\frac{23}{24},\frac{31}{24};\frac{1}{2},\frac{3}{4},\frac{7}{8},\frac{9}{8},\frac{5}{4},\frac{11}{8};-\frac{27x^8}{16777216t^3}\right)}{\Gamma\left(\frac{3}{8}\right)}-\right.$$
$$\frac{48t^{3/4}x^2\Gamma\left(\frac{29}{24}\right)\Gamma\left(\frac{37}{24}\right){}_2F_6\left(\frac{29}{24},\frac{37}{24};\frac{3}{4},\frac{9}{8},\frac{5}{4},\frac{11}{8},\frac{3}{2},\frac{13}{8};-\frac{27x^8}{16777216t^3}\right)}{\Gamma\left(\frac{9}{8}\right)}+$$
$$\left.\left.\frac{3^{3/4}x^4\Gamma\left(\frac{35}{24}\right)\Gamma\left(\frac{43}{24}\right){}_2F_6\left(\frac{35}{24},\frac{43}{24};\frac{5}{4},\frac{11}{8},\frac{3}{2},\frac{13}{8},\frac{7}{4},\frac{15}{8};-\frac{27x^8}{16777216t^3}\right)}{\Gamma\left(\frac{15}{8}\right)}\right)\right)+$$

$$\frac{x}{8\sqrt{\pi}t^{3/2}\Gamma\left(-\frac{5}{4}\right)}$$
$$\left(-\frac{2\ 3^{5/8}\sqrt{\pi}t^{3/8}x^2\Gamma\left(\frac{23}{24}\right)\Gamma\left(\frac{5}{4}\right)\Gamma\left(\frac{31}{24}\right)\ {}_2F_6\left(\frac{23}{24},\frac{31}{24};\frac{1}{2},\frac{3}{4},\frac{7}{8},\frac{9}{8},\frac{5}{4},\frac{11}{8};-\frac{27x^8}{16777216t^3}\right)}{\Gamma\left(\frac{1}{12}\right)\Gamma\left(\frac{11}{8}\right)\Gamma\left(\frac{17}{12}\right)}+\right.$$
$$\frac{1}{6}\sqrt{\pi}\left(x^2\right)^{3/2}\ {}_2F_6\left(\frac{13}{12},\frac{17}{12};\frac{5}{8},\frac{7}{8},\frac{9}{8},\frac{5}{4},\frac{11}{8},\frac{3}{2};-\frac{27x^8}{16777216t^3}\right)+\frac{\Gamma\left(\frac{5}{4}\right)}{1920\ 3^{7/8}t^{9/8}}$$
$$\frac{1}{6}\sqrt{\pi}\left(x^2\right)^{3/2}\ {}_2F_6\left(\frac{13}{12},\frac{17}{12};\frac{5}{8},\frac{7}{8},\frac{9}{8},\frac{5}{4},\frac{11}{8},\frac{3}{2};-\frac{27x^8}{16777216t^3}\right)+$$
$$\frac{\Gamma\left(\frac{5}{4}\right)}{1920\ 3^{7/8}t^{9/8}}$$
$$\left(-\frac{192\ 2^{7/12}\sqrt[4]{3}t^{3/4}x^4\cos\left(\frac{\pi}{8}\right)\Gamma\left(\frac{7}{8}\right)\Gamma\left(\frac{37}{24}\right)\ {}_2F_6\left(\frac{29}{24},\frac{37}{24};\frac{3}{4},\frac{9}{8},\frac{5}{4},\frac{11}{8},\frac{3}{2},\frac{13}{8};-\frac{27x^8}{16777216t^3}\right)}{\Gamma\left(\frac{17}{24}\right)\Gamma\left(\frac{13}{12}\right)}+\right.$$
$$\frac{3\sqrt{\pi}x^6\Gamma\left(\frac{35}{24}\right)\Gamma\left(\frac{43}{24}\right)\ {}_2F_6\left(\frac{35}{24},\frac{43}{24};\frac{5}{4},\frac{11}{8},\frac{3}{2},\frac{13}{8},\frac{7}{4},\frac{15}{8};-\frac{27x^8}{16777216t^3}\right)}{\Gamma\left(\frac{13}{12}\right)\Gamma\left(\frac{17}{12}\right)\Gamma\left(\frac{15}{8}\right)}+$$
$$\left.\left.\frac{2560\ 3^{3/4}\sqrt{2\pi}t^{9/4}\sin\left(\frac{\pi}{8}\right)\Gamma\left(\frac{3}{8}\right)\ {}_2F_6\left(\frac{17}{24},\frac{25}{24};\frac{1}{4},\frac{1}{2},\frac{5}{8},\frac{3}{4},\frac{7}{8},\frac{9}{8};-\frac{27x^8}{16777216t^3}\right)}{\Gamma\left(\frac{13}{24}\right)\Gamma\left(\frac{29}{24}\right)}\right)\right)+$$
$$\frac{x}{4\sqrt{\pi}\Gamma\left(\frac{1}{4}\right)}$$
$$\left(\frac{2\sqrt{\pi}\ {}_2F_6\left(\frac{7}{12},\frac{11}{12};\frac{1}{8},\frac{3}{8},\frac{1}{2},\frac{5}{8},\frac{3}{4},\frac{7}{8};-\frac{27x^8}{16777216t^3}\right)}{\sqrt{x^2}}+\right.$$
$$\frac{1}{10485760\ 3^{7/8}t^{21/8}\Gamma\left(\frac{7}{12}\right)}$$
$$\left(\frac{2318400\ 2^{3/4}\sqrt[4]{3}t^{9/4}\Gamma\left(-\frac{23}{8}\right)\Gamma\left(-\frac{1}{4}\right)^2\Gamma\left(\frac{17}{24}\right)\Gamma\left(\frac{25}{24}\right)}{\pi\Gamma\left(\frac{11}{12}\right)}\right.$$
$${}_2F_6\left(\frac{17}{24},\frac{25}{24};\frac{1}{4},\frac{1}{2},\frac{5}{8},\frac{3}{4},\frac{7}{8},\frac{9}{8};-\frac{27x^8}{16777216t^3}\right)+$$
$$\frac{3795\ \sqrt[12]{2}\sqrt{3}x^6\cos\left(\frac{\pi}{8}\right)\Gamma\left(-\frac{23}{8}\right)\Gamma\left(-\frac{1}{4}\right)\Gamma\left(\frac{43}{24}\right)}{\Gamma\left(\frac{23}{24}\right)}$$
$${}_2F_6\left(\frac{35}{24},\frac{43}{24};\frac{5}{4},\frac{11}{8},\frac{3}{2},\frac{13}{8},\frac{7}{4},\frac{15}{8};-\frac{27x^8}{16777216t^3}\right)+$$
$$\left(8192\pi^{3/2}\left(13\ 3^{3/4}t^{3/4}x^4\Gamma\left(-\frac{1}{4}\right)\Gamma\left(\frac{29}{24}\right)\right.\right.$$
$${}_2F_6\left(\frac{29}{24},\frac{37}{24};\frac{3}{4},\frac{9}{8},\frac{5}{4},\frac{11}{8},\frac{3}{2},\frac{13}{8};-\frac{27x^8}{16777216t^3}\right)$$
$$3840\sqrt[3]{2}t^{3/2}x^2\Gamma\left(\frac{11}{12}\right)\Gamma\left(\frac{31}{24}\right)+\sec\left(\frac{\pi}{24}\right)$$
$$\left.\left.\left.\left.\sin\left(\frac{\pi}{8}\right)\ {}_2F_6\left(\frac{23}{24},\frac{31}{24};\frac{1}{2},\frac{3}{4},\frac{7}{8},\frac{9}{8},\frac{5}{4},\frac{11}{8};-\frac{27x^8}{16777216t^3}\right)\right)\right)/\Gamma\left(\frac{1}{8}\right)\Gamma\left(\frac{11}{24}\right)\Gamma\left(\frac{11}{12}\right)\right)\right)\right)$$

B.3: Flux solution for $\beta=\frac{2}{3}$:

$$F(x,t)=\frac{1}{t^{2/3}}e^{-\frac{2}{27t^2}}\left(-\frac{3|x|\ {}_0F_7\left(;\frac{1}{12},\frac{1}{4},\frac{1}{3},\frac{5}{12},\frac{7}{12},\frac{3}{4},\frac{11}{12};\frac{x^{12}}{139314069504t^4}\right)}{4x\Gamma\left(-\frac{2}{3}\right)}-\right.$$
$$\frac{x\Gamma\left(\frac{7}{12}\right)\Gamma\left(\frac{11}{12}\right)\ {}_0F_7\left(;\frac{1}{6},\frac{1}{3},\frac{5}{12},\frac{1}{2},\frac{2}{3},\frac{5}{6},\frac{13}{12};\frac{x^{12}}{139314069504t^4}\right)}{4\pi^{3/2}\sqrt[3]{t}}+$$
$$\frac{x\Gamma\left(\frac{5}{12}\right)\Gamma\left(\frac{13}{12}\right)\ {}_0F_7\left(;\frac{1}{6},\frac{1}{3},\frac{1}{2},\frac{7}{12},\frac{2}{3},\frac{5}{6},\frac{11}{12};\frac{x^{12}}{139314069504t^4}\right)}{4\pi^{3/2}\sqrt[3]{t}}+$$
$$\frac{1}{52488\sqrt{3}\pi t^{8/3}}x|x|\left(-6561t^2\Gamma\left(\frac{1}{3}\right)\right.$$
$${}_0F_7\left(;\frac{1}{4},\frac{5}{12},\frac{7}{12},\frac{2}{3},\frac{3}{4},\frac{11}{12},\frac{13}{12};\frac{x^{12}}{139314069504t^4}\right)+$$
$$126t^{2/3}x^4\Gamma\left(-\frac{10}{3}\right)\ {}_0F_7\left(;\frac{7}{12},\frac{3}{4},\frac{11}{12},\frac{13}{12},\frac{5}{4},\frac{4}{3},\frac{17}{12};\frac{x^{12}}{139314069504t^4}\right)+$$
$$\left.22x^6\Gamma\left(-\frac{14}{3}\right)\ {}_0F_7\left(;\frac{3}{4},\frac{11}{12},\frac{13}{12},\frac{5}{4},\frac{17}{12},\frac{19}{12},\frac{5}{3};\frac{x^{12}}{139314069504t^4}\right)\right)+$$

$$\frac{1}{1433272320\pi^{3/2}t^{11/3}}x^3\left(-2488320t^{8/3}\Gamma\left(-\frac{1}{4}\right)\Gamma\left(\frac{5}{12}\right)\ {}_0F_7\left(;\frac{1}{3},\frac{1}{2},\frac{7}{12},\frac{2}{3},\frac{5}{6},\frac{7}{6},\frac{5}{4};\frac{x^{12}}{139314069504t^4}\right)-\right.$$
$$22394880t^{8/3}\Gamma\left(-\frac{3}{4}\right)\Gamma\left(\frac{11}{12}\right)\ {}_0F_7\left(;\frac{1}{3},\frac{1}{2},\frac{2}{3},\frac{3}{4},\frac{5}{6},\frac{13}{12},\frac{7}{6};\frac{x^{12}}{139314069504t^4}\right)+$$
$$x^2\left(103680t^2\Gamma\left(-\frac{5}{12}\right)\Gamma\left(\frac{1}{4}\right)\ {}_0F_7\left(;\frac{1}{2},\frac{2}{3},\frac{3}{4},\frac{5}{6},\frac{7}{6},\frac{4}{3},\frac{17}{12};\frac{x^{12}}{139314069504t^4}\right)+\right.$$
$$103680t^2\Gamma\left(-\frac{1}{4}\right)\Gamma\left(\frac{1}{12}\right)\ {}_0F_7\left(;\frac{1}{2},\frac{2}{3},\frac{5}{6},\frac{11}{12},\frac{7}{6},\frac{5}{4},\frac{4}{3};\frac{x^{12}}{139314069504t^4}\right)+$$
$$x^2\left(-2880t^{4/3}\Gamma\left(-\frac{7}{12}\right)\Gamma\left(\frac{1}{12}\right)\ {}_0F_7\left(;\frac{2}{3},\frac{5}{6},\frac{11}{12},\frac{7}{6},\frac{4}{3},\frac{3}{2},\frac{19}{12};\frac{x^{12}}{139314069504t^4}\right)-\right.$$
$$2880t^{4/3}\Gamma\left(-\frac{5}{12}\right)\Gamma\left(-\frac{1}{12}\right)\ {}_0F_7\left(;\frac{2}{3},\frac{5}{6},\frac{13}{12},\frac{7}{6},\frac{4}{3},\frac{17}{12},\frac{3}{2};\frac{x^{12}}{139314069504t^4}\right)+$$
$$x^2\left(60t^{2/3}\Gamma\left(-\frac{3}{4}\right)\Gamma\left(-\frac{1}{12}\right)\ {}_0F_7\left(;\frac{5}{6},\frac{13}{12},\frac{7}{6},\frac{4}{3},\frac{3}{2},\frac{5}{3},\frac{7}{4};\frac{x^{12}}{139314069504t^4}\right)+\right.$$
$$60t^{2/3}\Gamma\left(-\frac{7}{12}\right)\Gamma\left(-\frac{1}{4}\right)\ {}_0F_7\left(;\frac{5}{6},\frac{7}{6},\frac{5}{4},\frac{4}{3},\frac{3}{2},\frac{19}{12},\frac{5}{3};\frac{x^{12}}{139314069504t^4}\right)+$$
$$\left(\frac{4\sqrt{2}\pi\Gamma\left(-\frac{11}{12}\right){}_0F_7\left(;\frac{7}{6},\frac{5}{4},\frac{4}{3},\frac{3}{2},\frac{5}{3},\frac{11}{6},\frac{23}{12};\frac{x^{12}}{139314069504t^4}\right)}{\Gamma\left(\frac{1}{4}\right)}-\right.$$
$$\left.\left.\left.\left.\left.\left.\Gamma\left(-\frac{3}{4}\right)\Gamma\left(-\frac{5}{12}\right)\ {}_0F_7\left(;\frac{7}{6},\frac{4}{3},\frac{17}{12},\frac{3}{2},\frac{5}{3},\frac{7}{4},\frac{11}{6};\frac{x^{12}}{139314069504t^4}\right)\right)\right)\right)\right)\right)$$

B.4: Flux solution for $\beta = \frac{1}{2}$:

$$F(x,t)=\frac{\frac{x\ {}_0F_2\left(;\frac{1}{4},\frac{3}{4};-\frac{x^4}{256t}\right)}{2|x|}-\frac{x^3\Gamma\left(-\frac{3}{4}\right){}_0F_2\left(;\frac{3}{2},\frac{7}{4};-\frac{x^4}{256t}\right)+32\sqrt{t}x\Gamma\left(\frac{3}{4}\right){}_0F_2\left(;\frac{1}{2},\frac{5}{4};-\frac{x^4}{256t}\right)}{64\sqrt{2\pi}t^{3/4}}}{\sqrt{\pi}\sqrt{t}}$$

B.5: Flux solution for $\beta = \frac{2}{5}$:

$$F(x,t)=-\left(\left(4\pi x\left(7441875\sqrt{2}\left(\sqrt{5}+1\right)t^{9/5}\Gamma\left(-\frac{3}{5}\right)\Gamma\left(\frac{2}{5}\right)\right.\right.\right.$$
$$\Gamma\left(\frac{3}{5}\right)\Gamma\left(\frac{9}{10}\right)\ {}_0F_7\left(;\frac{1}{10},\frac{3}{10},\frac{2}{5},\frac{1}{2},\frac{3}{5},\frac{4}{5},\frac{9}{10};\frac{x^{10}}{2500000000t^2}\right)+$$
$$496125t^{8/5}\Gamma\left(\frac{3}{5}\right)\left(8\pi\left(\sqrt{5}+5\right)\sqrt{5-\sqrt{5}}+5\sqrt{2}\left(\sqrt{5}+1\right)\Gamma\left(\frac{2}{5}\right)\Gamma\left(\frac{3}{5}\right)\right)\Gamma\left(\frac{9}{10}\right)|x|$$
$${}_0F_7\left(;\frac{1}{5},\frac{2}{5},\frac{1}{2},\frac{3}{5},\frac{7}{10},\frac{9}{10},\frac{11}{10};\frac{x^{10}}{2500000000t^2}\right)+$$
$$\frac{1}{2}x^2\Gamma\left(\frac{2}{5}\right)\left(4961250\sqrt{2}t^{7/5}\Gamma\left(-\frac{1}{5}\right)\Gamma\left(\frac{3}{5}\right)\Gamma\left(\frac{9}{10}\right)\ {}_0F_7\left(;\frac{3}{10},\frac{1}{2},\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{11}{10},\frac{6}{5};\frac{x^{10}}{2500000000t^2}\right)+\right.$$
$$\frac{1}{8}x^2\left(3307500\sqrt{2}t\Gamma\left(\frac{1}{5}\right)\Gamma\left(\frac{3}{5}\right)\Gamma\left(\frac{9}{10}\right)\right.$$
$${}_0F_7\left(;\frac{1}{2},\frac{7}{10},\frac{4}{5},\frac{9}{10},\frac{6}{5},\frac{13}{10},\frac{7}{5};\frac{x^{10}}{2500000000t^2}\right)+$$
$$315t^{4/5}|x|\left(-1682^{7/10}\sqrt{\pi}\Gamma\left(-\frac{1}{5}\right)\Gamma\left(\frac{3}{5}\right)-336\sqrt{5-\sqrt{5}}\left(3\sqrt{5}+5\right)\pi\Gamma\left(\frac{9}{10}\right)+\right.$$
$${}_0F_7\left(;\frac{1}{5},\frac{2}{5},\frac{1}{2},\frac{3}{5},\frac{7}{10},\frac{9}{10},\frac{11}{10};\frac{x^{10}}{2500000000t^2}\right)+$$
$$\frac{1}{2}x^2\Gamma\left(\frac{2}{5}\right)\left(4961250\sqrt{2}t^{7/5}\Gamma\left(-\frac{1}{5}\right)\Gamma\left(\frac{3}{5}\right)\Gamma\left(\frac{9}{10}\right)\right.$$
$${}_0F_7\left(;\frac{3}{10},\frac{1}{2},\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{11}{10},\frac{6}{5};\frac{x^{10}}{2500000000t^2}\right)+$$
$$\frac{1}{8}x^2\left(3307500\sqrt{2}t\Gamma\left(\frac{1}{5}\right)\Gamma\left(\frac{3}{5}\right)\Gamma\left(\frac{9}{10}\right)\ {}_0F_7\left(;\frac{1}{2},\frac{7}{10},\frac{4}{5},\frac{9}{10},\frac{6}{5},\frac{13}{10},\frac{7}{5};\frac{x^{10}}{2500000000t^2}\right)+\right.$$
$$315t^{4/5}|x|\left(-1682^{7/10}\sqrt{\pi}\Gamma\left(-\frac{1}{5}\right)\Gamma\left(\frac{3}{5}\right)-\right.$$
$$\sqrt{2}\Gamma\left(\frac{3}{5}\right)+336\pi\left(3\sqrt{5}+5\right)\sqrt{5-\sqrt{5}}\Gamma\left(\frac{9}{10}\right)$$
$$\left.\left.168\sqrt[5]{2}\sqrt{5\pi}\Gamma\left(-\frac{1}{5}\right)-\left(\sqrt{5}+1\right)\Gamma\left(\frac{9}{10}\right)\left(625\Gamma\left(\frac{17}{5}\right)+252\Gamma\left(-\frac{3}{5}\right)\right)\right)\right.$$
$${}_0F_7\left(;\frac{3}{5},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{13}{10},\frac{7}{5},\frac{3}{2};\frac{x^{10}}{2500000000t^2}\right)-$$
$$x^2\Gamma\left(\frac{3}{5}\right)\Gamma\left(\frac{9}{10}\right)\left(-165375\sqrt{2}\left(\sqrt{5}+1\right)t^{3/5}\Gamma\left(\frac{3}{5}\right)\ {}_0F_7\left(;\frac{7}{10},\frac{9}{10},\frac{11}{10},\frac{6}{5},\frac{7}{5},\frac{3}{2},\frac{8}{5};\frac{x^{10}}{2500000000t^2}\right)+\right.$$

$$|x|\left(10\sqrt{2}t^{2/5}\left(625\Gamma\left(\tfrac{19}{5}\right)-1575\left(\sqrt{5}-1\right)\Gamma\left(\tfrac{9}{5}\right)+252\Gamma\left(-\tfrac{1}{5}\right)+1260\left(\sqrt{5}+3\right)\Gamma\left(\tfrac{4}{5}\right)\right)\right.$$
$${}_0F_7\left(;\tfrac{4}{5},\tfrac{11}{10},\tfrac{6}{5},\tfrac{13}{10},\tfrac{3}{2},\tfrac{8}{5},\tfrac{17}{10};\tfrac{x^{10}}{2500000000t^2}\right)+$$
$$\tfrac{21}{4}x^2\left(8\sqrt{2}\left(\sqrt{5}+3\right)\Gamma\left(-\tfrac{4}{5}\right)+5\left(-4\sqrt{2}+\sqrt{3-\sqrt{5}}+\sqrt{15-5\sqrt{5}}\right)\Gamma\left(\tfrac{1}{5}\right)+\right.$$
$$\left.\left.50\sqrt{2}\left(\sqrt{5}-1\right)\Gamma\left(\tfrac{6}{5}\right)\right)\,{}_0F_7\left(;\tfrac{6}{5},\tfrac{13}{10},\tfrac{7}{5},\tfrac{3}{2},\tfrac{17}{10},\tfrac{9}{5},\tfrac{19}{10};\tfrac{x^{10}}{2500000000t^2}\right)\right)\Big)\Big)\Big)\Big)\Big)\Big/$$
$$\left.297675\left(\sqrt{5}-1\right)\left(\sqrt{5}+5\right)^2t^{11/5}\sqrt{-\left(\sqrt{5}-5\right)x^2}\Gamma\left(-\tfrac{3}{5}\right)\Gamma\left(-\tfrac{1}{5}\right)\Gamma\left(\tfrac{1}{5}\right)\Gamma\left(\tfrac{2}{5}\right)\Gamma\left(\tfrac{3}{5}\right)^2\Gamma\left(\tfrac{9}{10}\right)\right)$$

B.6: Flux solution for $\beta=\frac{1}{3}$:

$$F(x,t)=\tfrac{1}{3456\pi^{3/2}\sqrt[3]{t}}x\left(\frac{864\sqrt{3\pi}\Gamma\left(\frac{1}{3}\right){}_0F_4\left(;\frac{1}{6},\frac{1}{2},\frac{2}{3},\frac{5}{6};-\frac{x^6}{46656t}\right)}{|x|}+\right.$$
$$\tfrac{1}{t^{5/6}}\left(-1728\pi t^{2/3}\,{}_0F_4\left(;\tfrac{1}{3},\tfrac{2}{3},\tfrac{5}{6},\tfrac{7}{6};-\tfrac{x^6}{46656t}\right)+\right.$$
$$192\sqrt{3\pi}\sqrt{t}\Gamma\left(-\tfrac{4}{3}\right)|x|\,{}_0F_4\left(;\tfrac{1}{2},\tfrac{5}{6},\tfrac{7}{6},\tfrac{4}{3};-\tfrac{x^6}{46656t}\right)-$$
$$8\sqrt[3]{2}\sqrt{3}\sqrt[3]{t}x^2\Gamma\left(-\tfrac{1}{3}\right)^2\,{}_0F_4\left(;\tfrac{2}{3},\tfrac{7}{6},\tfrac{4}{3},\tfrac{3}{2};-\tfrac{x^6}{46656t}\right)-$$
$$\left.\left.\sqrt{\pi}x^4\Gamma\left(-\tfrac{5}{6}\right)\,{}_0F_4\left(;\tfrac{4}{3},\tfrac{3}{2},\tfrac{5}{3},\tfrac{11}{6};-\tfrac{x^6}{46656t}\right)\right)\right)$$

B.7: Flux solution for $\beta=\frac{1}{5}$:

$$F(x,t)=\frac{25\sqrt{\frac{1}{x^2}}x\,{}_0F_8\left(;\frac{1}{10},\frac{3}{10},\frac{2}{5},\frac{1}{2},\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{9}{10};-\frac{x^{10}}{10000000000t}\right)}{12\sqrt[5]{t}\Gamma\left(-\frac{6}{5}\right)}+$$
$$\frac{7\left(\sqrt{5}-1\right)\left(-\frac{1}{t}\right)^{7/10}t^{2/5}x\Gamma\left(-\frac{7}{10}\right){}_0F_8\left(;\frac{1}{5},\frac{2}{5},\frac{1}{2},\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{9}{10},\frac{11}{10};-\frac{x^{10}}{10000000000t}\right)}{20\sqrt{10\left(5-\sqrt{5}\right)\pi}}+$$
$$\frac{2\sqrt{\frac{10}{5-\sqrt{5}}}x\,{}_0F_8\left(;\frac{1}{5},\frac{2}{5},\frac{1}{2},\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{9}{10},\frac{11}{10};-\frac{x^{10}}{10000000000t}\right)}{3\sqrt[10]{-\frac{1}{t}}t^{2/5}\Gamma\left(-\frac{3}{10}\right)}-$$
$$\frac{5\left(\sqrt{5}-1\right)\sqrt{\pi}x\,{}_0F_8\left(;\frac{1}{5},\frac{2}{5},\frac{1}{2},\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{9}{10},\frac{11}{10};-\frac{x^{10}}{10000000000t}\right)}{12\ 2^{3/5}\sqrt{-\frac{1}{t}}t^{4/5}\Gamma\left(-\frac{6}{5}\right)\Gamma\left(\frac{2}{5}\right)}-$$
$$\frac{125\sqrt{\frac{1}{2}\left(3-\sqrt{5}\right)}x\,{}_0F_8\left(;\frac{3}{10},\frac{1}{2},\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5};-\frac{x^{10}}{10000000000t}\right)}{336\left(\sqrt{5}-1\right)t^{2/5}\sqrt{\frac{1}{x^2}}\Gamma\left(-\frac{12}{5}\right)}+$$
$$\frac{\left(\sqrt{5}-1\right)\sqrt{\frac{5-\sqrt{5}}{2\pi}}x^3\,{}_0F_8\left(;\frac{2}{5},\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5},\frac{13}{10};-\frac{x^{10}}{10000000000t}\right)}{120\left(-\frac{1}{t}\right)^{3/10}t^{4/5}}+$$
$$\frac{\left(\sqrt{5}+1\right)x^3\,{}_0F_8\left(;\frac{2}{5},\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5},\frac{13}{10};-\frac{x^{10}}{10000000000t}\right)}{6\left(\sqrt{5}-5\right)\sqrt{2\left(\sqrt{5}+5\right)\pi}\sqrt[10]{-\frac{1}{t}}t^{3/5}}+$$
$$\frac{\left(\sqrt{5}+1\right)\sqrt[10]{-\frac{1}{t}}x^3\,{}_0F_8\left(;\frac{2}{5},\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5},\frac{13}{10};-\frac{x^{10}}{10000000000t}\right)}{6\left(\sqrt{5}-5\right)\sqrt{2\left(\sqrt{5}+5\right)\pi}t^{2/5}}+$$
$$\frac{\left(\sqrt{5}-1\right)\sqrt{\frac{5-\sqrt{5}}{2\pi}}\left(-\frac{1}{t}\right)^{3/10}x^3\,{}_0F_8\left(;\frac{2}{5},\frac{3}{5},\frac{7}{10},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5},\frac{13}{10};-\frac{x^{10}}{10000000000t}\right)}{120\sqrt[5]{t}}-$$
$$\frac{5x\,{}_0F_8\left(;\frac{1}{2},\frac{7}{10},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{7}{5};-\frac{x^{10}}{10000000000t}\right)}{144t^{3/5}\left(\frac{1}{x^2}\right)^{3/2}\Gamma\left(-\frac{3}{5}\right)}-$$
$$\frac{25\sqrt{\pi}x^5\,{}_0F_8\left(;\frac{3}{5},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{7}{5},\frac{3}{2};-\frac{x^{10}}{10000000000t}\right)}{8064\ 2^{2/5}\sqrt[10]{-\frac{1}{t}}t^{4/5}\Gamma\left(-\frac{12}{5}\right)\Gamma\left(-\frac{4}{5}\right)}-$$
$$\frac{25\left(\sqrt{5}-1\right)\sqrt{\pi}\sqrt{-\frac{1}{t}}x^5\,{}_0F_8\left(;\frac{3}{5},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{7}{5},\frac{3}{2};-\frac{x^{10}}{10000000000t}\right)}{32256\ 2^{2/5}\sqrt[5]{t}\Gamma\left(-\frac{12}{5}\right)\Gamma\left(-\frac{4}{5}\right)}+$$

$$\frac{1}{96\pi^{5/2}t^{4/5}\Gamma\left(\frac{3}{10}\right)}\sqrt{5}x\left(\frac{1}{25}(-4)\sqrt{\frac{2}{5-\sqrt{5}}}\pi^{5/2}\sqrt[10]{-\frac{1}{t}}\sqrt[5]{t}x^4\right.$$
$${}_0F_8\left(;\frac{3}{5},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{7}{5},\frac{3}{2};-\frac{x^{10}}{10000000000t}\right)+$$
$$\left.\frac{4\sqrt{\frac{2}{5(5-\sqrt{5})}}\left(\sqrt{5}-1\right)\pi^{5/2}\left(-\frac{1}{t}\right)^{3/10}t^{2/5}x^4\,{}_0F_8\left(;\frac{3}{5},\frac{4}{5},\frac{9}{10},\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{7}{5},\frac{3}{2};-\frac{x^{10}}{10000000000t}\right)}{5\left(\sqrt{5}+5\right)}\right)+$$
$$\frac{x\,{}_0F_8\left(;\frac{7}{10},\frac{9}{10},\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{7}{5},\frac{3}{2},\frac{8}{5};-\frac{x^{10}}{10000000000t}\right)}{1440t^{4/5}\left(\frac{1}{x^2}\right)^{5/2}\Gamma\left(\frac{1}{5}\right)}+$$
$$\frac{\left(\sqrt{5}+1\right)\sqrt{\pi}\,\sqrt[10]{-\frac{1}{t}}x^7\,{}_0F_8\left(;\frac{4}{5},\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{7}{5},\frac{3}{2},\frac{8}{5},\frac{17}{10};-\frac{x^{10}}{10000000000t}\right)}{15120\ 2^{4/5}t^{4/5}\Gamma\left(-\frac{3}{5}\right)\Gamma\left(\frac{1}{5}\right)}-$$
$$\frac{25\left(\sqrt{5}-1\right)\sqrt{\frac{\sqrt{5}+5}{\pi}}\left(-\frac{1}{t}\right)^{3/10}x^7\Gamma\left(\frac{19}{5}\right)\,{}_0F_8\left(;\frac{4}{5},\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{7}{5},\frac{3}{2},\frac{8}{5},\frac{17}{10};-\frac{x^{10}}{10000000000t}\right)}{6096384\ 2^{3/10}t^{3/5}\Gamma\left(-\frac{3}{5}\right)}+$$
$$\frac{1}{96\pi^{5/2}t^{4/5}\Gamma\left(-\frac{9}{10}\right)}\sqrt{5}x\left(\frac{1}{945}\sqrt{\frac{2}{5-\sqrt{5}}}\left(\sqrt{5}+1\right)\pi^{5/2}\sqrt{-\frac{1}{t}}t^{2/5}x^6\right.$$
$${}_0F_8\left(;\frac{4}{5},\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{7}{5},\frac{3}{2},\frac{8}{5},\frac{17}{10};-\frac{x^{10}}{10000000000t}\right)-$$
$$\frac{2}{945}\sqrt{\frac{2}{5}\left(5-\sqrt{5}\right)}\pi^{5/2}\left(-\frac{1}{t}\right)^{7/10}t^{3/5}x^6$$
$$\left.{}_0F_8\left(;\frac{4}{5},\frac{11}{10},\frac{6}{5},\frac{13}{10},\frac{7}{5},\frac{3}{2},\frac{8}{5},\frac{17}{10};-\frac{x^{10}}{10000000000t}\right)\right)+$$
$$\frac{\sqrt{\frac{1}{2}\left(5-\sqrt{5}\right)}\left(\sqrt{5}+1\right)\left(-\frac{1}{t}\right)^{9/10}x^9\Gamma\left(-\frac{9}{10}\right)\,{}_0F_8\left(;\frac{6}{5},\frac{13}{10},\frac{7}{5},\frac{3}{2},\frac{8}{5},\frac{17}{10},\frac{9}{5},\frac{19}{10};-\frac{x^{10}}{10000000000t}\right)}{80640000\pi\sqrt[5]{t}}+$$
$$\frac{\left(\sqrt{5}-1\right)\left(-\frac{1}{t}\right)^{7/10}x^9\Gamma\left(-\frac{4}{5}\right)\,{}_0F_8\left(;\frac{6}{5},\frac{13}{10},\frac{7}{5},\frac{3}{2},\frac{8}{5},\frac{17}{10},\frac{9}{5},\frac{19}{10};-\frac{x^{10}}{10000000000t}\right)}{6096384\ 2^{7/10}\sqrt{5\left(5-\sqrt{5}\right)\pi}t^{2/5}\Gamma\left(-\frac{12}{5}\right)}+$$
$$\frac{\sqrt{5}x}{96\pi^{5/2}t^{4/5}\Gamma\left(-\frac{1}{10}\right)}$$
$$\left(-\frac{\sqrt{\frac{1}{10}\left(5-\sqrt{5}\right)}\pi^{5/2}\left(-\frac{1}{t}\right)^{3/10}x^8\,{}_0F_8\left(;\frac{6}{5},\frac{13}{10},\frac{7}{5},\frac{3}{2},\frac{8}{5},\frac{17}{10},\frac{9}{5},\frac{19}{10};-\frac{x^{10}}{10000000000t}\right)}{18900}+\right.$$
$$\left.\frac{\left(\sqrt{5}+1\right)\pi^{5/2}\sqrt{\frac{1}{\left(\sqrt{5}-5\right)t}}\sqrt[5]{t}x^8\,{}_0F_8\left(;\frac{6}{5},\frac{13}{10},\frac{7}{5},\frac{3}{2},\frac{8}{5},\frac{17}{10},\frac{9}{5},\frac{19}{10};-\frac{x^{10}}{10000000000t}\right)}{37800\sqrt{2}}\right)$$

B.8: Flux solution for $\beta=\frac{1}{9}$:

$$F(x,t)=\frac{1}{\sqrt[9]{t}}\left(\frac{x\,{}_0F_{16}\left(;\frac{1}{18},\frac{1}{6},\frac{2}{9},\frac{5}{18},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18};-\frac{x^{18}}{39346408075296537575424t}\right)}{2\sqrt{x^2}\Gamma\left(\frac{8}{9}\right)}+\right.$$
$$\frac{x\sqrt{x^2}\,{}_0F_{16}\left(;\frac{1}{6},\frac{5}{18},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9};-\frac{x^{18}}{39346408075296537575424t}\right)}{4\sqrt[9]{t}\Gamma\left(\frac{7}{9}\right)}-$$
$$\frac{(-1)^{17/18}x^3\csc^2\left(\frac{\pi}{9}\right)\Gamma\left(-\frac{4}{9}\right)\Gamma\left(\frac{2}{9}\right)}{324\ 2^{5/9}\pi^{3/2}\sqrt[6]{t}}$$
$${}_0F_{16}\left(;\frac{2}{9},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6};-\frac{x^{18}}{39346408075296537575424t}\right)-$$
$$\frac{\sqrt[18]{-1}x^5\csc\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)\Gamma\left(\frac{1}{9}\right)\Gamma\left(\frac{7}{9}\right)}{2880\ 2^{7/9}\pi^{3/2}t^{5/18}}$$
$${}_0F_{16}\left(;\frac{1}{3},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18};-\frac{x^{18}}{39346408075296537575424t}\right)-$$
$$\frac{(-1)^{17/18}x^5\csc^2\left(\frac{\pi}{9}\right)\csc^2\left(\frac{2\pi}{9}\right)\Gamma\left(-\frac{4}{9}\right)\Gamma\left(\frac{10}{9}\right)}{10368\sqrt[3]{2}\pi t^{5/18}\Gamma\left(\frac{23}{18}\right)}$$
$${}_0F_{16}\left(;\frac{1}{3},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18};-\frac{x^{18}}{39346408075296537575424t}\right)+$$

$$\frac{x\left(x^2\right)^{13/2}\,{}_0F_{16}\left(;\frac{5}{6},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18},\frac{16}{9};-\frac{x^{18}}{39346408075296537575424t}\right)}{174356582400t^{7/9}\Gamma\left(\frac{1}{9}\right)}-$$

$$\left(\sqrt[18]{-1}\sqrt{\pi}x^{15}\cos\left(\frac{\pi}{9}\right)\cos\left(\frac{2\pi}{9}\right)\right.$$

$$\left.\frac{{}_0F_{16}\left(;\frac{8}{9},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18},\frac{16}{9},\frac{11}{6};-\frac{x^{18}}{39346408075296537575424t}\right)\right)}{3310050744000\ 2^{8/9}t^{5/6}\Gamma\left(\frac{1}{9}\right)\Gamma\left(\frac{13}{9}\right)}-$$

$$\frac{(-1)^{17/18}\sqrt{\pi}x^{17}\cos\left(\frac{\pi}{9}\right)\cos\left(\frac{2\pi}{9}\right)\,{}_0F_{16}\left(;\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18},\frac{16}{9},\frac{11}{6},\frac{17}{9},\frac{35}{18};-\frac{x^{18}}{39346408075296537575424t}\right)}{7202670418944000\sqrt[9]{2}t^{17/18}\Gamma\left(\frac{5}{9}\right)\Gamma\left(\frac{8}{9}\right)}+$$

$$\frac{(-1)^{5/6}x^3\csc^2\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)\Gamma\left(-\frac{4}{9}\right)\Gamma\left(\frac{2}{9}\right)}{1296\ 2^{5/9}\pi^{3/2}\sqrt[6]{t}}$$

$$\sec\left(\frac{\pi}{18}\right)\,{}_0F_{16}\left(;\frac{2}{9},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6};-\frac{x^{18}}{39346408075296537575424t}\right)+$$

$$\frac{\sqrt[6]{-1}x^3\csc\left(\frac{\pi}{9}\right)\sec\left(\frac{\pi}{18}\right)\Gamma\left(\frac{11}{9}\right)\,{}_0F_{16}\left(;\frac{2}{9},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6};-\frac{x^{18}}{39346408075296537575424t}\right)}{8\ 2^{2/3}\sqrt{3}\sqrt[6]{t}\Gamma\left(\frac{1}{18}\right)\Gamma\left(\frac{8}{9}\right)}-$$

$$\frac{\sqrt[18]{-1}x^7\cot\left(\frac{\pi}{9}\right)\cot\left(\frac{2\pi}{9}\right)\csc\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)}{241920\sqrt{\pi}t^{7/18}}$$

$$\sec\left(\frac{\pi}{18}\right)\,{}_0F_{16}\left(;\frac{4}{9},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18};-\frac{x^{18}}{39346408075296537575424t}\right)+$$

$$\frac{(-1)^{17/18}x^7\cot\left(\frac{\pi}{9}\right)\cot\left(\frac{2\pi}{9}\right)\csc\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)}{241920\sqrt{\pi}t^{7/18}}$$

$$\sec\left(\frac{\pi}{18}\right)\,{}_0F_{16}\left(;\frac{4}{9},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18};-\frac{x^{18}}{39346408075296537575424t}\right)-$$

$$\frac{215\ \sqrt[18]{-1}x^9\cot\left(\frac{2\pi}{9}\right)\csc^2\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)}{2902376448\sqrt{t}\Gamma\left(\frac{61}{18}\right)}$$

$$\sec\left(\frac{\pi}{18}\right)\,{}_0F_{16}\left(;\frac{5}{9},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2};-\frac{x^{18}}{39346408075296537575424t}\right)+$$

$$\frac{(-1)^{17/18}x^{11}\cos\left(\frac{2\pi}{9}\right)\cot\left(\frac{\pi}{9}\right)\Gamma\left(\frac{13}{18}\right)}{239500800\sqrt{3}\pi t^{11/18}}$$

$$\sec\left(\frac{\pi}{18}\right)\,{}_0F_{16}\left(;\frac{2}{3},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18};-\frac{x^{18}}{39346408075296537575424t}\right)-$$

$$\frac{\sqrt[18]{-1}x^{11}\cot\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)}{1724405760t^{11/18}\Gamma\left(\frac{23}{18}\right)}$$

$$\sec\left(\frac{\pi}{18}\right)\,{}_0F_{16}\left(;\frac{2}{3},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18};-\frac{x^{18}}{39346408075296537575424t}\right)-$$

$$\frac{\sqrt[18]{-1}x^{13}\cos\left(\frac{2\pi}{9}\right)\cot\left(\frac{\pi}{9}\right)}{96074035200\sqrt{3}t^{13/18}\Gamma\left(\frac{13}{6}\right)}$$

$$\sec\left(\frac{\pi}{18}\right)\,{}_0F_{16}\left(;\frac{7}{9},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18};-\frac{x^{18}}{39346408075296537575424t}\right)-$$

$$\frac{ix^3\csc^2\left(\frac{\pi}{9}\right)\Gamma\left(-\frac{4}{9}\right)\Gamma\left(\frac{2}{9}\right)}{2592\ 2^{5/9}\pi^{3/2}\sqrt[6]{t}}$$

$$\sec^2\left(\frac{\pi}{18}\right)\,{}_0F_{16}\left(;\frac{2}{9},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6};-\frac{x^{18}}{39346408075296537575424t}\right)+$$

$$\frac{215(-1)^{17/18}x^9\cot\left(\frac{2\pi}{9}\right)\csc^2\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)}{1934917632\sqrt{3}\sqrt{t}\Gamma\left(\frac{61}{18}\right)}$$

$$\sec^2\left(\frac{\pi}{18}\right)\,{}_0F_{16}\left(;\frac{5}{9},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2};-\frac{x^{18}}{39346408075296537575424t}\right)+$$

$$\frac{x\left(x^2\right)^{3/2}\csc\left(\frac{\pi}{18}\right)}{384t^{2/9}\Gamma\left(\frac{2}{3}\right)}$$

$$\sec\left(\frac{\pi}{9}\right)\sec\left(\frac{2\pi}{9}\right)\,{}_0F_{16}\left(;\frac{5}{18},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9};-\frac{x^{18}}{39346408075296537575424t}\right)+$$

$$\frac{x\left(x^2\right)^{11/2}\csc\left(\frac{\pi}{18}\right)}{10597171200t^{2/3}\Gamma\left(-\frac{16}{9}\right)}$$

$$\sec\left(\frac{\pi}{9}\right)\sec\left(\frac{2\pi}{9}\right)\,{}_0F_{16}\left(;\frac{13}{18},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3};-\frac{x^{18}}{39346408075296537575424t}\right)-$$

$$\frac{8(-1)^{5/6}x\cos\left(\frac{\pi}{9}\right)\cos\left(\frac{2\pi}{9}\right)\Gamma\left(\frac{7}{6}\right)}{\sqrt{3}\pi\sqrt[18]{t}}$$

$$\sin\left(\frac{\pi}{18}\right)\,{}_0F_{16}\left(;\frac{1}{9},\frac{2}{9},\frac{5}{18},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18};-\frac{x^{18}}{39346408075296537575424t}\right)-$$

$$\frac{\sqrt[6]{-1}x^5\csc\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)}{280\sqrt{3}t^{5/18}\Gamma\left(-\frac{7}{18}\right)}$$

$$\sin\left(\frac{\pi}{18}\right)\,{}_0F_{16}\left(;\frac{1}{3},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18};-\frac{x^{18}}{39346408075296537575424t}\right)+$$

$$\frac{ix^5\sin\left(\frac{\pi}{18}\right)\csc\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)\Gamma\left(\frac{5}{9}\right)\,{}_0F_{16}\left(;\frac{1}{3},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18};-\frac{x^{18}}{39346408075296537575424t}\right)}{5184\sqrt[3]{2}\sqrt{3}t^{5/18}\Gamma\left(\frac{8}{9}\right)\Gamma\left(\frac{23}{18}\right)}-$$

$$\frac{(-1)^{5/18}x^{11}\cot\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)\Gamma\left(\frac{13}{18}\right)}{239500800\sqrt{3}\pi t^{11/18}}$$

$$\sin\left(\frac{\pi}{18}\right)\,{}_0F_{16}\left(;\frac{2}{3},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18};-\frac{x^{18}}{39346408075296537575424t}\right)+$$

$$\frac{(-1)^{7/18}x^{11}\sin\left(\frac{\pi}{18}\right)\,{}_0F_{16}\left(;\frac{2}{3},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18};-\frac{x^{18}}{39346408075296537575424t}\right)}{215550720\sqrt{3}t^{11/18}\Gamma\left(\frac{23}{18}\right)}+$$

$$\frac{\sqrt[6]{-1}x^{11}\cot\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)}{431101440\sqrt{3}t^{11/18}\Gamma\left(\frac{23}{18}\right)}$$

$$\sin\left(\frac{\pi}{18}\right)\,{}_0F_{16}\left(;\frac{2}{3},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18};-\frac{x^{18}}{39346408075296537575424t}\right)-$$

$$\frac{i\sqrt{\pi}x^{11}\sin\left(\frac{\pi}{18}\right)\cos\left(\frac{\pi}{9}\right)\,{}_0F_{16}\left(;\frac{2}{3},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18};-\frac{x^{18}}{39346408075296537575424t}\right)}{223534080\ 2^{4/9}t^{11/18}\Gamma\left(-\frac{16}{9}\right)\Gamma\left(\frac{14}{9}\right)}-$$

$$\frac{i\sqrt{\pi}x^{13}\sin\left(\frac{\pi}{18}\right)\cos\left(\frac{\pi}{9}\right)\cos\left(\frac{2\pi}{9}\right)\,{}_0F_{16}\left(;\frac{7}{9},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18};-\frac{x^{18}}{39346408075296537575424t}\right)}{3113510400\ 2^{2/3}t^{13/18}\Gamma\left(-\frac{2}{3}\right)^2}+$$

$$\frac{(-1)^{7/18}x^{13}\cot\left(\frac{2\pi}{9}\right)\csc\left(\frac{\pi}{9}\right)}{96074035200\sqrt{3}t^{13/18}\Gamma\left(\frac{13}{6}\right)}$$

$$\sin\left(\frac{\pi}{18}\right)\,{}_0F_{16}\left(;\frac{7}{9},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18};-\frac{x^{18}}{39346408075296537575424t}\right)-$$

$$\frac{(-1)^{5/18}x^{13}\cot\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)}{96074035200\sqrt{3}t^{13/18}\Gamma\left(\frac{13}{6}\right)}$$

$$\sin\left(\frac{\pi}{18}\right)\,{}_0F_{16}\left(;\frac{7}{9},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18};-\frac{x^{18}}{39346408075296537575424t}\right)+$$

$$\left((-1)^{7/18}x^{15}\cot\left(\frac{2\pi}{9}\right)\csc\left(\frac{\pi}{9}\right)\Gamma\left(\frac{26}{9}\right)\right.$$

$$\left.\frac{\sin\left(\frac{\pi}{18}\right)\,{}_0F_{16}\left(;\frac{8}{9},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18},\frac{16}{9},\frac{11}{6};-\frac{x^{18}}{39346408075296537575424t}\right)\right)}{6586804224000\ 2^{8/9}\sqrt{3}\pi t^{5/6}\Gamma\left(\frac{4}{9}\right)}+$$

$$\frac{(-1)^{11/18}x^{17}\cot\left(\frac{2\pi}{9}\right)\csc\left(\frac{\pi}{9}\right)\Gamma\left(\frac{19}{18}\right)}{2134124568576000\sqrt{3}\pi t^{17/18}}$$

$$\sin\left(\frac{\pi}{18}\right)\,{}_0F_{16}\left(;\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18},\frac{16}{9},\frac{11}{6},\frac{17}{9},\frac{35}{18};-\frac{x^{18}}{39346408075296537575424t}\right)+$$

$$\frac{(-1)^{7/18}x^3\csc\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)}{5\sqrt{3}\sqrt[6]{t}\Gamma\left(-\frac{5}{18}\right)}$$

$$\sin^2\left(\frac{\pi}{18}\right)\,{}_0F_{16}\left(;\frac{2}{9},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6};-\frac{x^{18}}{39346408075296537575424t}\right)+$$

$$\frac{(-1)^{17/18}x^{13}\cos\left(\frac{\pi}{9}\right)\cos\left(\frac{2\pi}{9}\right)}{36027763200t^{13/18}\Gamma\left(\frac{13}{6}\right)}$$

$$\sin\left(\frac{\pi}{9}\right)\,{}_0F_{16}\left(;\frac{7}{9},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18};-\frac{x^{18}}{39346408075296537575424t}\right)+$$

$$\frac{x\left(x^2\right)^{5/2}\csc\left(\frac{\pi}{18}\right)}{2880\sqrt[3]{t}\Gamma\left(\frac{5}{9}\right)}$$

$$\sin\left(\frac{\pi}{9}\right)\sec\left(\frac{\pi}{18}\right)\,{}_0F_{16}\left(;\frac{7}{18},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3};-\frac{x^{18}}{39346408075296537575424t}\right)+$$

$$\frac{x\left(x^2\right)^{7/2}\csc\left(\frac{\pi}{18}\right)\csc\left(\frac{2\pi}{9}\right)}{322560t^{4/9}\Gamma\left(\frac{4}{9}\right)}$$

$$\sin\left(\frac{\pi}{9}\right)\sec\left(\frac{2\pi}{9}\right)\ {}_0F_{16}\left(;\frac{1}{2},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9};-\frac{x^{18}}{39346408075296537575424t}\right)-$$
$$\frac{x\left(x^2\right)^{9/2}\csc\left(\frac{\pi}{18}\right)\csc\left(\frac{2\pi}{9}\right)}{19353600t^{5/9}\Gamma\left(-\frac{2}{3}\right)}$$
$$\sin\left(\frac{\pi}{9}\right)\sec\left(\frac{2\pi}{9}\right)\ {}_0F_{16}\left(;\frac{11}{18},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9};-\frac{x^{18}}{39346408075296537575424t}\right)+$$
$$\frac{(-1)^{11/18}x^{11}\sin\left(\frac{\pi}{18}\right)\sin\left(\frac{\pi}{9}\right){}_0F_{16}\left(;\frac{2}{3},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18};-\frac{x^{18}}{39346408075296537575424t}\right)}{323326080t^{11/18}\Gamma\left(\frac{23}{18}\right)}-$$
$$\frac{(-1)^{5/6}x^{11}\sin\left(\frac{\pi}{18}\right)\sin\left(\frac{\pi}{9}\right)\cos\left(\frac{\pi}{9}\right){}_0F_{16}\left(;\frac{2}{3},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18};-\frac{x^{18}}{39346408075296537575424t}\right)}{161663040t^{11/18}\Gamma\left(\frac{23}{18}\right)}-$$
$$\frac{(-1)^{13/18}x^{13}\cos\left(\frac{\pi}{9}\right)}{36027763200t^{13/18}\Gamma\left(\frac{13}{6}\right)}$$
$$\sin\left(\frac{\pi}{18}\right)\sin\left(\frac{\pi}{9}\right)\ {}_0F_{16}\left(;\frac{7}{9},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18};-\frac{x^{18}}{39346408075296537575424t}\right)+$$
$$\frac{(-1)^{11/18}x^{13}\cos\left(\frac{2\pi}{9}\right)}{36027763200t^{13/18}\Gamma\left(\frac{13}{6}\right)}$$
$$\sin\left(\frac{\pi}{18}\right)\sin\left(\frac{2\pi}{9}\right)\ {}_0F_{16}\left(;\frac{7}{9},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18};-\frac{x^{18}}{39346408075296537575424t}\right)+$$
$$\frac{1}{847372990464000t^{5/6}\Gamma\left(\frac{19}{18}\right)}$$
$$x^{15}\ {}_0F_{16}\left(;\frac{8}{9},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18},\frac{16}{9},\frac{11}{6};-\frac{x^{18}}{39346408075296537575424t}\right)$$
$$\left(-16(-1)^{13/18}\cos\left(\frac{\pi}{9}\right)+8(-1)^{11/18}\sqrt{3}\cot\left(\frac{2\pi}{9}\right)-\right.$$
$$2i\sqrt{3}\cot\left(\frac{\pi}{9}\right)\cot\left(\frac{2\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)+4\sqrt[6]{-1}\sqrt{3}\cot\left(\frac{\pi}{9}\right)\cot\left(\frac{2\pi}{9}\right)\sec\left(\frac{\pi}{18}\right)-$$
$$\left.32(-1)^{5/6}\sin\left(\frac{\pi}{9}\right)\cos\left(\frac{\pi}{9}\right)\cot\left(\frac{2\pi}{9}\right)+3(-1)^{5/18}\cot\left(\frac{\pi}{9}\right)\csc^2\left(\frac{2\pi}{9}\right)\sec\left(\frac{\pi}{18}\right)\right)\sin\left(\frac{2\pi}{9}\right)+$$
$$\left(\sin\left(\frac{\pi}{9}\right)\left(32\sqrt[6]{-1}x^{17}\cos\left(\frac{\pi}{9}\right)\cos\left(\frac{2\pi}{9}\right)\right.\right.$$
$${}_0F_{16}\left(;\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18},\frac{16}{9},\frac{11}{6},\frac{17}{9},\frac{35}{18};-\frac{x^{18}}{39346408075296537575424t}\right)-$$
$$8(-1)^{13/18}\sqrt{3}x^{17}\cot\left(\frac{\pi}{9}\right)$$
$${}_0F_{16}\left(;\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18},\frac{16}{9},\frac{11}{6},\frac{17}{9},\frac{35}{18};-\frac{x^{18}}{39346408075296537575424t}\right)-$$
$$2i\sqrt{3}x^{17}\cot\left(\frac{\pi}{9}\right)\cot\left(\frac{2\pi}{9}\right)\csc\left(\frac{\pi}{9}\right)$$
$${}_0F_{16}\left(;\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18},\frac{16}{9},\frac{11}{6},\frac{17}{9},\frac{35}{18};-\frac{x^{18}}{39346408075296537575424t}\right)-$$
$$2(-1)^{5/18}\sqrt{3}x^{17}\cot\left(\frac{\pi}{9}\right)\csc\left(\frac{\pi}{9}\right)$$
$$\sec\left(\frac{\pi}{18}\right)\ {}_0F_{16}\left(;\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18},\frac{16}{9},\frac{11}{6},\frac{17}{9},\frac{35}{18};-\frac{x^{18}}{39346408075296537575424t}\right)+$$
$$3(-1)^{7/18}x^{17}\cot\left(\frac{2\pi}{9}\right)\csc^2\left(\frac{\pi}{9}\right)$$
$$\sec\left(\frac{\pi}{18}\right)\ {}_0F_{16}\left(;\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18},\frac{16}{9},\frac{11}{6},\frac{17}{9},\frac{35}{18};-\frac{x^{18}}{39346408075296537575424t}\right)+$$
$$32(-1)^{5/6}x^{17}\cos\left(\frac{2\pi}{9}\right)\cot\left(\frac{\pi}{9}\right)$$
$$\left.\left.\frac{\sin\left(\frac{2\pi}{9}\right){}_0F_{16}\left(;\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18},\frac{16}{9},\frac{11}{6},\frac{17}{9},\frac{35}{18};-\frac{x^{18}}{39346408075296537575424t}\right)}{244043421253632000t^{17/18}\Gamma\left(\frac{35}{18}\right)}+\right.\right.$$
$$\left.\frac{(-1)^{11/18}x^3\csc^2\left(\frac{\pi}{9}\right)\csc^2\left(\frac{2\pi}{9}\right)\Gamma\left(-\frac{4}{9}\right)\Gamma\left(\frac{2}{9}\right)}{432\ 2^{5/9}\sqrt{3}\pi^{3/2}\sqrt[6]{t}}\right)$$
$$\tan\left(\frac{\pi}{18}\right)\ {}_0F_{16}\left(;\frac{2}{9},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6};-\frac{x^{18}}{39346408075296537575424t}\right)-$$
$$\frac{(-1)^{5/18}x^5\csc\left(\frac{\pi}{9}\right)\Gamma\left(\frac{7}{18}\right)}{1440\sqrt{3}\pi t^{5/18}}$$
$$\tan\left(\frac{\pi}{18}\right)\ {}_0F_{16}\left(;\frac{1}{3},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18};-\frac{x^{18}}{39346408075296537575424t}\right)-$$
$$\left((-1)^{5/6}x^5\csc^2\left(\frac{\pi}{9}\right)\csc^2\left(\frac{2\pi}{9}\right)\Gamma\left(\frac{1}{9}\right)\right.$$

$$\frac{\tan\left(\frac{\pi}{18}\right){}_0F_{16}\left(;\frac{1}{3},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18};-\frac{x^{18}}{39346408075296537575424t}\right)\Big)}{\left(20736\sqrt[3]{2}t^{5/18}\Gamma\left(\frac{4}{9}\right)\Gamma\left(\frac{23}{18}\right)\right.} -$$

$$\frac{(-1)^{5/18}x^7\cot\left(\frac{\pi}{9}\right)}{30240\sqrt{3\pi}t^{7/18}}$$

$$\tan\left(\frac{\pi}{18}\right)\ {}_0F_{16}\left(;\frac{4}{9},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18};-\frac{x^{18}}{39346408075296537575424t}\right) +$$

$$\frac{(-1)^{7/18}x^7\cot\left(\frac{2\pi}{9}\right)}{30240\sqrt{3\pi}t^{7/18}}$$

$$\tan\left(\frac{\pi}{18}\right)\ {}_0F_{16}\left(;\frac{4}{9},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18};-\frac{x^{18}}{39346408075296537575424t}\right) -$$

$$\frac{(-1)^{11/18}x^7\cot\left(\frac{2\pi}{9}\right)}{30240\sqrt{3\pi}t^{7/18}}$$

$$\tan\left(\frac{\pi}{18}\right)\ {}_0F_{16}\left(;\frac{4}{9},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18};-\frac{x^{18}}{39346408075296537575424t}\right) +$$

$$\frac{\sqrt[6]{-1}x^7\cot\left(\frac{\pi}{9}\right)\cot\left(\frac{2\pi}{9}\right)}{30240\sqrt{\pi}t^{7/18}}$$

$$\tan\left(\frac{\pi}{18}\right)\ {}_0F_{16}\left(;\frac{4}{9},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18};-\frac{x^{18}}{39346408075296537575424t}\right) -$$

$$\frac{(-1)^{7/18}x^9\cot\left(\frac{2\pi}{9}\right)\Gamma\left(-\frac{1}{9}\right)}{9797760\ 2^{2/9}\sqrt{3\pi}\sqrt{t}\Gamma\left(\frac{7}{9}\right)}$$

$$\tan\left(\frac{\pi}{18}\right)\ {}_0F_{16}\left(;\frac{5}{9},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2};-\frac{x^{18}}{39346408075296537575424t}\right) -$$

$$\frac{i\sqrt{\pi}x^9\tan\left(\frac{\pi}{18}\right)\cot\left(\frac{2\pi}{9}\right)\csc\left(\frac{\pi}{9}\right){}_0F_{16}\left(;\frac{5}{9},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2};-\frac{x^{18}}{39346408075296537575424t}\right)}{2177280\ 2^{2/9}\sqrt{3}\sqrt{t}\Gamma\left(\frac{1}{9}\right)\Gamma\left(\frac{7}{9}\right)} +$$

$$\frac{(-1)^{13/18}\sqrt{\frac{\pi}{3}}x^9\tan\left(\frac{\pi}{18}\right)\csc\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right){}_0F_{16}\left(;\frac{5}{9},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2};-\frac{x^{18}}{39346408075296537575424t}\right)}{2177280\ 2^{2/9}\sqrt{t}\Gamma\left(\frac{1}{9}\right)\Gamma\left(\frac{7}{9}\right)} -$$

$$\frac{215(-1)^{5/18}x^9\csc\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)}{725594112\sqrt{t}\Gamma\left(\frac{61}{18}\right)}$$

$$\tan\left(\frac{\pi}{18}\right)\ {}_0F_{16}\left(;\frac{5}{9},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2};-\frac{x^{18}}{39346408075296537575424t}\right) +$$

$$\frac{215\sqrt[6]{-1}x^9\cot\left(\frac{2\pi}{9}\right)\csc^2\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)}{1451188224\sqrt{t}\Gamma\left(\frac{61}{18}\right)}$$

$$\tan\left(\frac{\pi}{18}\right)\ {}_0F_{16}\left(;\frac{5}{9},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2};-\frac{x^{18}}{39346408075296537575424t}\right) -$$

$$\frac{\sqrt[6]{-1}x^{13}\tan\left(\frac{\pi}{18}\right)\cot\left(\frac{\pi}{9}\right)\cot\left(\frac{2\pi}{9}\right)\Gamma\left(\frac{5}{3}\right){}_0F_{16}\left(;\frac{7}{9},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18},\frac{13}{9},\frac{3}{2},\frac{14}{9},\frac{29}{18},\frac{5}{3},\frac{31}{18};-\frac{x^{18}}{39346408075296537575424t}\right)}{8302694400\ 2^{2/3}\sqrt{\pi}t^{13/18}\Gamma\left(-\frac{2}{3}\right)} -$$

$$\frac{(-1)^{11/18}x^5\cot\left(\frac{2\pi}{9}\right)\csc\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)}{2880t^{5/18}\Gamma\left(\frac{11}{18}\right)}$$

$$\tan\left(\frac{\pi}{18}\right)\sec\left(\frac{\pi}{18}\right)\ {}_0F_{16}\left(;\frac{1}{3},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18};-\frac{x^{18}}{39346408075296537575424t}\right) +$$

$$\frac{(-1)^{13/18}x^5\csc^2\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)\Gamma\left(\frac{1}{9}\right)\Gamma\left(\frac{7}{9}\right)}{3840\ 2^{7/9}\sqrt{3}\pi^{3/2}t^{5/18}}$$

$$\tan\left(\frac{\pi}{18}\right)\sec\left(\frac{\pi}{18}\right)\ {}_0F_{16}\left(;\frac{1}{3},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18};-\frac{x^{18}}{39346408075296537575424t}\right) +$$

$$\frac{(-1)^{13/18}x^7\cot\left(\frac{\pi}{9}\right)\csc\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)}{241920\sqrt{\pi}t^{7/18}}$$

$$\tan\left(\frac{\pi}{18}\right)\sec\left(\frac{\pi}{18}\right)\ {}_0F_{16}\left(;\frac{4}{9},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18};-\frac{x^{18}}{39346408075296537575424t}\right) -$$

$$\frac{(-1)^{5/6}x^7\cot\left(\frac{\pi}{9}\right)\cot\left(\frac{2\pi}{9}\right)\csc\left(\frac{\pi}{9}\right)\csc\left(\frac{2\pi}{9}\right)}{80640\sqrt{3\pi}t^{7/18}}$$

$$\tan\left(\frac{\pi}{18}\right)\sec\left(\frac{\pi}{18}\right)\ {}_0F_{16}\left(;\frac{4}{9},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6},\frac{11}{9},\frac{23}{18},\frac{4}{3},\frac{25}{18};-\frac{x^{18}}{39346408075296537575424t}\right) -$$

$$\frac{215(-1)^{5/6}x^9\cot\left(\frac{2\pi}{9}\right)\csc^2\left(\frac{\pi}{9}\right)}{1451188224\sqrt{t}\Gamma\left(\frac{61}{18}\right)}$$

$$\tan\left(\tfrac{\pi}{18}\right)\sec\left(\tfrac{\pi}{18}\right)\ {}_0F_{16}\left(;\tfrac{5}{9},\tfrac{2}{3},\tfrac{13}{18},\tfrac{7}{9},\tfrac{5}{6},\tfrac{8}{9},\tfrac{17}{18},\tfrac{19}{18},\tfrac{10}{9},\tfrac{7}{6},\tfrac{11}{9},\tfrac{23}{18},\tfrac{4}{3},\tfrac{25}{18},\tfrac{13}{9},\tfrac{3}{2};-\frac{x^{18}}{39346408075296537575424t}\right)+$$
$$\frac{x^3\Gamma\left(\frac{23}{18}\right){}_0F_{16}\left(;\frac{2}{9},\frac{1}{3},\frac{7}{18},\frac{4}{9},\frac{1}{2},\frac{5}{9},\frac{11}{18},\frac{2}{3},\frac{13}{18},\frac{7}{9},\frac{5}{6},\frac{8}{9},\frac{17}{18},\frac{19}{18},\frac{10}{9},\frac{7}{6};-\frac{x^{18}}{39346408075296537575424t}\right)}{480\pi\sqrt[6]{t}}$$
$$3(-1)^{13/18}\tan\left(\tfrac{\pi}{18}\right)\csc^3\left(\tfrac{\pi}{9}\right)\csc\left(\tfrac{2\pi}{9}\right)-4\sqrt[18]{-1}\sqrt{3}\csc^2\left(\tfrac{\pi}{9}\right)+$$
$$\frac{1}{108\sqrt[18]{t}\Gamma\left(\frac{11}{6}\right)}5\csc\left(\tfrac{\pi}{9}\right)\csc\left(\tfrac{2\pi}{9}\right)\left(2(-1)^{13/18}\sqrt{3}x\cos\left(\tfrac{\pi}{9}\right)\right.$$
$$\sin\left(\tfrac{\pi}{18}\right)\ {}_0F_{16}\left(;\tfrac{1}{9},\tfrac{2}{9},\tfrac{5}{18},\tfrac{1}{3},\tfrac{7}{18},\tfrac{4}{9},\tfrac{1}{2},\tfrac{5}{9},\tfrac{11}{18},\tfrac{2}{3},\tfrac{13}{18},\tfrac{7}{9},\tfrac{5}{6},\tfrac{8}{9},\tfrac{17}{18},\tfrac{19}{18};-\frac{x^{18}}{39346408075296537575424t}\right)-$$
$$2(-1)^{11/18}\sqrt{3}x\cos\left(\tfrac{2\pi}{9}\right)$$
$$\sin\left(\tfrac{\pi}{18}\right)\ {}_0F_{16}\left(;\tfrac{1}{9},\tfrac{2}{9},\tfrac{5}{18},\tfrac{1}{3},\tfrac{7}{18},\tfrac{4}{9},\tfrac{1}{2},\tfrac{5}{9},\tfrac{11}{18},\tfrac{2}{3},\tfrac{13}{18},\tfrac{7}{9},\tfrac{5}{6},\tfrac{8}{9},\tfrac{17}{18},\tfrac{19}{18};-\frac{x^{18}}{39346408075296537575424t}\right)-$$
$$16\sqrt[18]{-1}x\cos\left(\tfrac{\pi}{9}\right)\cos\left(\tfrac{2\pi}{9}\right)$$
$$\sin^2\left(\tfrac{\pi}{9}\right)\sin\left(\tfrac{2\pi}{9}\right)$$
$${}_0F_{16}\left(;\tfrac{1}{9},\tfrac{2}{9},\tfrac{5}{18},\tfrac{1}{3},\tfrac{7}{18},\tfrac{4}{9},\tfrac{1}{2},\tfrac{5}{9},\tfrac{11}{18},\tfrac{2}{3},\tfrac{13}{18},\tfrac{7}{9},\tfrac{5}{6},\tfrac{8}{9},\tfrac{17}{18},\tfrac{19}{18};-\frac{x^{18}}{39346408075296537575424t}\right)+$$
$$16(-1)^{5/18}x\cos\left(\tfrac{\pi}{9}\right)$$
$$\sin\left(\tfrac{\pi}{18}\right)\sin^2\left(\tfrac{\pi}{9}\right)\sin\left(\tfrac{2\pi}{9}\right)$$
$${}_0F_{16}\left(;\tfrac{1}{9},\tfrac{2}{9},\tfrac{5}{18},\tfrac{1}{3},\tfrac{7}{18},\tfrac{4}{9},\tfrac{1}{2},\tfrac{5}{9},\tfrac{11}{18},\tfrac{2}{3},\tfrac{13}{18},\tfrac{7}{9},\tfrac{5}{6},\tfrac{8}{9},\tfrac{17}{18},\tfrac{19}{18};-\frac{x^{18}}{39346408075296537575424t}\right)+$$
$$16(-1)^{17/18}x\cos\left(\tfrac{\pi}{9}\right)\cos\left(\tfrac{2\pi}{9}\right)$$
$$\sin\left(\tfrac{\pi}{9}\right)\sin^2\left(\tfrac{2\pi}{9}\right)\ {}_0F_{16}\left(;\tfrac{1}{9},\tfrac{2}{9},\tfrac{5}{18},\tfrac{1}{3},\tfrac{7}{18},\tfrac{4}{9},\tfrac{1}{2},\tfrac{5}{9},\tfrac{11}{18},\tfrac{2}{3},\tfrac{13}{18},\tfrac{7}{9},\tfrac{5}{6},\tfrac{8}{9},\tfrac{17}{18},\tfrac{19}{18};-\frac{x^{18}}{39346408075296537575424t}\right)+$$
$$3ix\cos\left(\tfrac{\pi}{9}\right)\cos\left(\tfrac{2\pi}{9}\right)$$
$$\tan\left(\tfrac{\pi}{18}\right)\ {}_0F_{16}\left(;\tfrac{1}{9},\tfrac{2}{9},\tfrac{5}{18},\tfrac{1}{3},\tfrac{7}{18},\tfrac{4}{9},\tfrac{1}{2},\tfrac{5}{9},\tfrac{11}{18},\tfrac{2}{3},\tfrac{13}{18},\tfrac{7}{9},\tfrac{5}{6},\tfrac{8}{9},\tfrac{17}{18},\tfrac{19}{18};-\frac{x^{18}}{39346408075296537575424t}\right)-$$
$$2(-1)^{7/18}\sqrt{3}x\cos\left(\tfrac{2\pi}{9}\right)$$
$$\left.\left.\sin\left(\tfrac{2\pi}{9}\right)\tan\left(\tfrac{\pi}{18}\right)\ {}_0F_{16}\left(;\tfrac{1}{9},\tfrac{2}{9},\tfrac{5}{18},\tfrac{1}{3},\tfrac{7}{18},\tfrac{4}{9},\tfrac{1}{2},\tfrac{5}{9},\tfrac{11}{18},\tfrac{2}{3},\tfrac{13}{18},\tfrac{7}{9},\tfrac{5}{6},\tfrac{8}{9},\tfrac{17}{18},\tfrac{19}{18};-\frac{x^{18}}{39346408075296537575424t}\right)\right)\right)$$

4. The stability terms

The breakthrough curves and the flux plots for cases, $\beta = \frac{4}{5}$, $\frac{2}{5}$, $\frac{1}{5}$, and $\frac{1}{9}$ were derived by introducing the stability term $\mu(s,t)$ in $\frac{C_\beta(x,t)}{C_0} = \int_0^\infty \mathscr{E}_\beta(s,t)C_1(x,s)\mu(s,t)ds$. Here $\mu(s,t) = \exp\left(\frac{as^b}{\gamma\pi b^b t^a}\right)$, allows (a) numerical integration and derivation of the BTC and (b) preserves the initial arrival and tailing features of the anomalous diffusion (see fig. 1). The coefficients a and b are derived from the numerator and denominator of a selected exponent β, and the value of γ controls the influence of the term on the subordination integration. The stability terms for the selected β exponents are $\exp\left(\frac{4s^5}{\gamma\pi 5^5 t^4}\right)$, $\exp\left(\frac{2s^5}{\gamma\pi 5^5 t^2}\right)$, $\exp\left(\frac{s^5}{\gamma\pi 5^5 t}\right)$, and $\exp\left(\frac{s^9}{\gamma\pi 9^9 t}\right)$ respectively. The linear and residual BTCs for the selected new β values were estimated considering the γ =100 in the present work. Note that the exponential form of the stability term truncates the $\mathscr{E}_\beta$, and the resulting BTC and flux plots can be evaluated for finite time intervals. The BTC of 3/4 can be assessed until $t = 10^{10}$ days, respectively. The parameterγ in $\mu(s,t)$ controls the influence of the stability term on the subordination integration. The BTCs and flux plots were evaluated by setting $\gamma = 100$ to ensure minimal impact of the stability term on the subordination

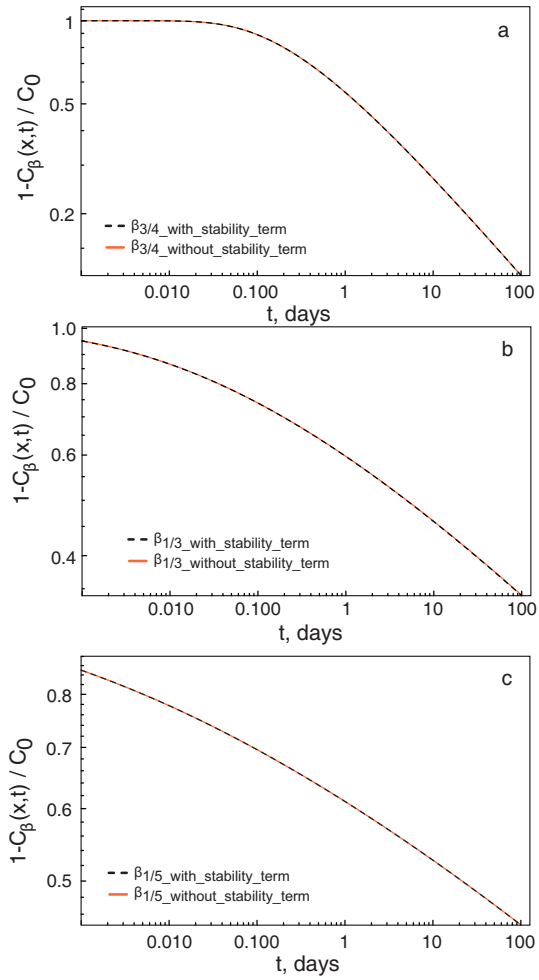

Figure 1. Residual BTCs $\log_{10}(1 - C/C_0)$ vs. $\log_{10}(t)$ of $\beta{=}\frac{3}{4}$, $\beta{=}\frac{1}{3}$, and $\beta{=}\frac{1}{5}$ obtained through the NIntegrate method with and without involving stability term. The plots shows that in each case, including the stability term does not change the initial arrival times and long-time tails of the residual BTCs.

integration.