

$$\begin{aligned}
\phi_{2, x, R} = & \frac{1}{7 \text{Deltax}^2 \Sigma_t^2} \left(-14 \text{Deltax}^2 \Sigma_t^2 \left(\frac{8 j_{1, out, x, R}}{15} + \frac{8 j_{1, inc, x, R}}{15} - \frac{8 \hat{j}_{3, out, x, R}}{15} - \frac{8 \hat{j}_{3, inc, x, R}}{15} \right) \right. \\
& + 16 j_{1, out, x, L} + 16 j_{1, inc, x, L} + 16 \hat{j}_{3, out, x, L} + 16 \hat{j}_{3, inc, x, L} + 1328 j_{1, out, x, R} + 1328 j_{1, inc, x, R} \\
& + 1328 \hat{j}_{3, out, x, R} + 1328 \hat{j}_{3, inc, x, R} + 498 \phi_{2, x, L} + 1482 \phi_{2, x, R} \\
& - \frac{1}{-5 \alpha + 4 \Sigma_{rem, 0}} \left(1980 \left(\frac{5 (\hat{j}_{3, out, x, R} - \hat{j}_{3, inc, x, R} + \hat{j}_{3, out, x, L} - \hat{j}_{3, inc, x, L})}{\text{Deltax}} \right. \right. \\
& + \frac{5 (\hat{j}_{3, out, y, R} - \hat{j}_{3, inc, y, R} + \hat{j}_{3, out, y, L} - \hat{j}_{3, inc, y, L})}{\text{Deltay}} \\
& + \frac{5 (\hat{j}_{3, out, z, R} - \hat{j}_{3, inc, z, R} + \hat{j}_{3, out, z, L} - \hat{j}_{3, inc, z, L})}{\text{Deltaz}} \\
& + \frac{2 (j_{1, out, x, R} - j_{1, inc, x, R} + j_{1, out, x, L} - j_{1, inc, x, L})}{\text{Deltax}} \\
& + \frac{2 (j_{1, out, y, R} - j_{1, inc, y, R} + j_{1, out, y, L} - j_{1, inc, y, L})}{\text{Deltay}} \\
& + \left. \left. \frac{2 (j_{1, out, z, R} - j_{1, inc, z, R} + j_{1, out, z, L} - j_{1, inc, z, L})}{\text{Deltaz}} \right) \right) - \frac{1}{\Sigma_{rem, 0}} \left(504 \left(S_0 \right. \right. \\
& - \frac{j_{1, out, x, R} - j_{1, inc, x, R} + j_{1, out, x, L} - j_{1, inc, x, L}}{\text{Deltax}} - \frac{j_{1, out, y, R} - j_{1, inc, y, R} + j_{1, out, y, L} - j_{1, inc, y, L}}{\text{Deltay}} \\
& - \left. \left. \frac{j_{1, out, z, R} - j_{1, inc, z, R} + j_{1, out, z, L} - j_{1, inc, z, L}}{\text{Deltaz}} \right) \right) - 1008 \bar{\Phi}_{0, x, 1} - 4704 \bar{\Phi}_{0, x, 2} - 1944 \bar{\phi}_{2, x, 1} \\
& \left. - 9072 \bar{\phi}_{2, x, 2} \right) \\
\phi_{2, x, L} = & \frac{1}{7 \text{Deltax}^2 \Sigma_t^2} \left(-14 \text{Deltax}^2 \Sigma_t^2 \left(\frac{8 j_{1, out, x, L}}{15} + \frac{8 j_{1, inc, x, L}}{15} - \frac{8 \hat{j}_{3, out, x, L}}{15} - \frac{8 \hat{j}_{3, inc, x, L}}{15} \right) \right)
\end{aligned}$$

$$+ 1328 j_{1, out, x, L} + 1328 j_{1, inc, x, L} + 1328 \hat{j}_{3, out, x, L} + 1328 \hat{j}_{3, inc, x, L} + 16 j_{1, out, x, R} + 16 j_{1, inc, x, R}$$

$$+ 16 \hat{j}_{3, out, x, R} + 16 \hat{j}_{3, inc, x, R} + 1482 \phi_{2, x, L} + 498 \phi_{2, x, R}$$

$$- \frac{1}{-5 \alpha + 4 \Sigma_{rem, 0}} \left(1980 \left(\frac{5 \left(\hat{j}_{3, out, x, R} - \hat{j}_{3, inc, x, R} + \hat{j}_{3, out, x, L} - \hat{j}_{3, inc, x, L} \right)}{Deltax} \right. \right.$$

$$+ \frac{5 \left(\hat{j}_{3, out, y, R} - \hat{j}_{3, inc, y, R} + \hat{j}_{3, out, y, L} - \hat{j}_{3, inc, y, L} \right)}{Deltay}$$

$$+ \frac{5 \left(\hat{j}_{3, out, z, R} - \hat{j}_{3, inc, z, R} + \hat{j}_{3, out, z, L} - \hat{j}_{3, inc, z, L} \right)}{Deltaz}$$

$$+ \frac{2 \left(j_{1, out, x, R} - j_{1, inc, x, R} + j_{1, out, x, L} - j_{1, inc, x, L} \right)}{Deltax}$$

$$+ \frac{2 \left(j_{1, out, y, R} - j_{1, inc, y, R} + j_{1, out, y, L} - j_{1, inc, y, L} \right)}{Deltay}$$

$$+ \frac{2 \left(j_{1, out, z, R} - j_{1, inc, z, R} + j_{1, out, z, L} - j_{1, inc, z, L} \right)}{Deltaz} \left. \right) \left. \right) - \frac{1}{\Sigma_{rem, 0}} \left(504 \left(S_0 \right. \right. \\ - \frac{j_{1, out, x, R} - j_{1, inc, x, R} + j_{1, out, x, L} - j_{1, inc, x, L}}{Deltax} - \frac{j_{1, out, y, R} - j_{1, inc, y, R} + j_{1, out, y, L} - j_{1, inc, y, L}}{Deltay} \\ - \frac{j_{1, out, z, R} - j_{1, inc, z, R} + j_{1, out, z, L} - j_{1, inc, z, L}}{Deltaz} \left. \right) \left. \right) + 1008 \bar{\Phi}_{0, x, 1} - 4704 \bar{\Phi}_{0, x, 2} + 1944 \bar{\phi}_{2, x, 1} \\ - 9072 \bar{\phi}_{2, x, 2} \left. \right)$$

$$\hat{j}_{3, out, x, R} - \hat{j}_{3, inc, x, R} = - \frac{1}{4900 Deltax^3 \Sigma_t^3} \left(9 \left(-210 \left(21 \phi_{2, x, R} - \phi_{2, x, L} \right. \right. \right.$$

$$- \frac{1}{-5 \alpha + 4 \Sigma_{rem, 0}} \left(20 \left(\frac{5 \left(\hat{j}_{3, out, x, R} - \hat{j}_{3, inc, x, R} + \hat{j}_{3, out, x, L} - \hat{j}_{3, inc, x, L} \right)}{Deltax} \right. \right.$$

$$\begin{aligned}
& + \frac{5 \left(\hat{j}_{3, out, y, R} - \hat{j}_{3, inc, y, R} + \hat{j}_{3, out, y, L} - \hat{j}_{3, inc, y, L} \right)}{Deltay} \\
& + \frac{5 \left(\hat{j}_{3, out, z, R} - \hat{j}_{3, inc, z, R} + \hat{j}_{3, out, z, L} - \hat{j}_{3, inc, z, L} \right)}{Deltaz} \\
& + \frac{2 \left(j_{1, out, x, R} - j_{1, inc, x, R} + j_{1, out, x, L} - j_{1, inc, x, L} \right)}{Deltax} \\
& + \frac{2 \left(j_{1, out, y, R} - j_{1, inc, y, R} + j_{1, out, y, L} - j_{1, inc, y, L} \right)}{Deltay} \\
& + \frac{2 \left(j_{1, out, z, R} - j_{1, inc, z, R} + j_{1, out, z, L} - j_{1, inc, z, L} \right)}{Deltaz} \Bigg) + \frac{40 j_{1, out, x, R}}{3} + \frac{40 j_{1, inc, x, R}}{3} \\
& + \frac{40 \hat{j}_{3, out, x, R}}{3} + \frac{40 \hat{j}_{3, inc, x, R}}{3} - \frac{40 j_{1, out, x, L}}{3} - \frac{40 j_{1, inc, x, L}}{3} - \frac{40 \hat{j}_{3, out, x, L}}{3} - \frac{40 \hat{j}_{3, inc, x, L}}{3} \\
& - 60 \bar{\phi}_{2, x, 1} - 140 \bar{\phi}_{2, x, 2} \Bigg) Deltax^2 \Sigma_t^2 + \frac{222400 j_{1, out, x, R}}{3} + \frac{222400 j_{1, inc, x, R}}{3} \\
& + \frac{222400 \hat{j}_{3, out, x, R}}{3} + \frac{222400 \hat{j}_{3, inc, x, R}}{3} + 93400 \phi_{2, x, R} + 30400 j_{1, out, x, L} + 30400 j_{1, inc, x, L} \\
& + 30400 \hat{j}_{3, out, x, L} + 30400 \hat{j}_{3, inc, x, L} + 60600 \phi_{2, x, L} - 33600 \bar{\Phi}_{0, x, 1} \\
& - \frac{1}{-5 \alpha + 4 \Sigma_{rem, 0}} \Bigg(154000 \left(\frac{5 \left(\hat{j}_{3, out, x, R} - \hat{j}_{3, inc, x, R} + \hat{j}_{3, out, x, L} - \hat{j}_{3, inc, x, L} \right)}{Deltax} \right. \\
& + \frac{5 \left(\hat{j}_{3, out, y, R} - \hat{j}_{3, inc, y, R} + \hat{j}_{3, out, y, L} - \hat{j}_{3, inc, y, L} \right)}{Deltay} \\
& + \frac{5 \left(\hat{j}_{3, out, z, R} - \hat{j}_{3, inc, z, R} + \hat{j}_{3, out, z, L} - \hat{j}_{3, inc, z, L} \right)}{Deltaz}
\end{aligned}$$

$$\begin{aligned}
& + \frac{2 \left(j_{1, out, x, R} - j_{1, inc, x, R} + j_{1, out, x, L} - j_{1, inc, x, L} \right)}{Deltax} \\
& + \frac{2 \left(j_{1, out, y, R} - j_{1, inc, y, R} + j_{1, out, y, L} - j_{1, inc, y, L} \right)}{Deltay} \\
& + \frac{2 \left(j_{1, out, z, R} - j_{1, inc, z, R} + j_{1, out, z, L} - j_{1, inc, z, L} \right)}{Deltaz} \Bigg) \Bigg) - \frac{1}{\Sigma_{rem, 0}} \left(39200 \left(S_0 \right. \right. \\
& - \frac{j_{1, out, x, R} - j_{1, inc, x, R} + j_{1, out, x, L} - j_{1, inc, x, L}}{Deltax} - \frac{j_{1, out, y, R} - j_{1, inc, y, R} + j_{1, out, y, L} - j_{1, inc, y, L}}{Deltay} \\
& - \frac{j_{1, out, z, R} - j_{1, inc, z, R} + j_{1, out, z, L} - j_{1, inc, z, L}}{Deltaz} \Bigg) \Bigg) - 392000 \bar{\Phi}_{0, x, 2} - 64800 \bar{\phi}_{2, x, 1} \\
& - 756000 \bar{\phi}_{2, x, 2} \Bigg) \Bigg) - \frac{2 \left(j_{1, out, x, R} - j_{1, inc, x, R} \right)}{5 \Sigma_t}
\end{aligned}$$

$$\begin{aligned}
\hat{j}_{3, out, x, L} - \hat{j}_{3, inc, x, L} = & - \frac{1}{4900 Deltax^3 \Sigma_t^3} \left(9 \left(-210 \left(\phi_{2, x, R} - 21 \phi_{2, x, L} \right. \right. \right. \\
& + \frac{1}{-5 \alpha + 4 \Sigma_{rem, 0}} \left(20 \left(\frac{5 \left(\hat{j}_{3, out, x, R} - \hat{j}_{3, inc, x, R} + \hat{j}_{3, out, x, L} - \hat{j}_{3, inc, x, L} \right)}{Deltax} \right. \right. \\
& + \frac{5 \left(\hat{j}_{3, out, y, R} - \hat{j}_{3, inc, y, R} + \hat{j}_{3, out, y, L} - \hat{j}_{3, inc, y, L} \right)}{Deltay} \\
& + \frac{5 \left(\hat{j}_{3, out, z, R} - \hat{j}_{3, inc, z, R} + \hat{j}_{3, out, z, L} - \hat{j}_{3, inc, z, L} \right)}{Deltaz} \\
& + \frac{2 \left(j_{1, out, x, R} - j_{1, inc, x, R} + j_{1, out, x, L} - j_{1, inc, x, L} \right)}{Deltax} \\
& + \frac{2 \left(j_{1, out, y, R} - j_{1, inc, y, R} + j_{1, out, y, L} - j_{1, inc, y, L} \right)}{Deltay} \\
& + \frac{2 \left(j_{1, out, z, R} - j_{1, inc, z, R} + j_{1, out, z, L} - j_{1, inc, z, L} \right)}{Deltaz} \Bigg) \Bigg) + \frac{40 j_{1, out, x, R}}{3} + \frac{40 j_{1, inc, x, R}}{3}
\end{aligned}$$

$$\begin{aligned}
& + \frac{40 \hat{j}_{3, out, x, R}}{3} + \frac{40 \hat{j}_{3, inc, x, R}}{3} - \frac{40 j_{1, out, x, L}}{3} - \frac{40 j_{1, inc, x, L}}{3} - \frac{40 \hat{j}_{3, out, x, L}}{3} - \frac{40 \hat{j}_{3, inc, x, L}}{3} \\
& - 60 \bar{\phi}_{2, x, 1} + 140 \bar{\phi}_{2, x, 2} \Big) Deltax^2 \Sigma_t^2 - 30400 j_{1, out, x, R} - 30400 j_{1, inc, x, R} - 30400 \hat{j}_{3, out, x, R} \\
& - 30400 \hat{j}_{3, inc, x, R} - 60600 \phi_{2, x, R} - \frac{222400 j_{1, out, x, L}}{3} - \frac{222400 j_{1, inc, x, L}}{3} - \frac{222400 \hat{j}_{3, out, x, L}}{3} \\
& - \frac{222400 \hat{j}_{3, inc, x, L}}{3} - 93400 \phi_{2, x, L} - 33600 \bar{\Phi}_{0, x, 1} \\
& + \frac{1}{-5 \alpha + 4 \Sigma_{rem, 0}} \Bigg(154000 \left(\frac{5 (\hat{j}_{3, out, x, R} - \hat{j}_{3, inc, x, R} + \hat{j}_{3, out, x, L} - \hat{j}_{3, inc, x, L})}{Deltax} \right. \\
& + \frac{5 (\hat{j}_{3, out, y, R} - \hat{j}_{3, inc, y, R} + \hat{j}_{3, out, y, L} - \hat{j}_{3, inc, y, L})}{Deltay} \\
& + \frac{5 (\hat{j}_{3, out, z, R} - \hat{j}_{3, inc, z, R} + \hat{j}_{3, out, z, L} - \hat{j}_{3, inc, z, L})}{Deltaz} \\
& + \frac{2 (j_{1, out, x, R} - j_{1, inc, x, R} + j_{1, out, x, L} - j_{1, inc, x, L})}{Deltax} \\
& + \frac{2 (j_{1, out, y, R} - j_{1, inc, y, R} + j_{1, out, y, L} - j_{1, inc, y, L})}{Deltay} \\
& + \frac{2 (j_{1, out, z, R} - j_{1, inc, z, R} + j_{1, out, z, L} - j_{1, inc, z, L})}{Deltaz} \Bigg) + \frac{1}{\Sigma_{rem, 0}} \Bigg(39200 \left(S_0 \right. \\
& - \frac{j_{1, out, x, R} - j_{1, inc, x, R} + j_{1, out, x, L} - j_{1, inc, x, L}}{Deltax} - \frac{j_{1, out, y, R} - j_{1, inc, y, R} + j_{1, out, y, L} - j_{1, inc, y, L}}{Deltay} \\
& - \frac{j_{1, out, z, R} - j_{1, inc, z, R} + j_{1, out, z, L} - j_{1, inc, z, L}}{Deltaz} \Bigg) + 392000 \bar{\Phi}_{0, x, 2} - 64800 \bar{\phi}_{2, x, 1} \\
& \left. + 756000 \bar{\phi}_{2, x, 2} \right) \Bigg) - \frac{2 (j_{1, out, x, L} - j_{1, inc, x, L})}{5 \Sigma_t}
\end{aligned}$$

$$\begin{aligned}
j_{1, out, x, R} - j_{1, inc, x, R} &= \frac{1}{Deltax} \left(\frac{128 j_{1, out, x, R}}{3} + \frac{128 j_{1, inc, x, R}}{3} + \frac{128 \hat{j}_{3, out, x, R}}{3} + \frac{128 \hat{j}_{3, inc, x, R}}{3} \right. \\
&+ 32 \phi_{2, x, R} + \frac{32 j_{1, out, x, L}}{3} + \frac{32 j_{1, inc, x, L}}{3} + \frac{32 \hat{j}_{3, out, x, L}}{3} + \frac{32 \hat{j}_{3, inc, x, L}}{3} + 8 \phi_{2, x, L} \\
&- \frac{1}{-5 \alpha + 4 \Sigma_{rem, 0}} \left(40 \left(\frac{5 (\hat{j}_{3, out, x, R} - \hat{j}_{3, inc, x, R} + \hat{j}_{3, out, x, L} - \hat{j}_{3, inc, x, L})}{Deltax} \right. \right. \\
&+ \frac{5 (\hat{j}_{3, out, y, R} - \hat{j}_{3, inc, y, R} + \hat{j}_{3, out, y, L} - \hat{j}_{3, inc, y, L})}{Deltay} \\
&+ \frac{5 (\hat{j}_{3, out, z, R} - \hat{j}_{3, inc, z, R} + \hat{j}_{3, out, z, L} - \hat{j}_{3, inc, z, L})}{Deltaz} \\
&+ \frac{2 (j_{1, out, x, R} - j_{1, inc, x, R} + j_{1, out, x, L} - j_{1, inc, x, L})}{Deltax} \\
&+ \frac{2 (j_{1, out, y, R} - j_{1, inc, y, R} + j_{1, out, y, L} - j_{1, inc, y, L})}{Deltay} \\
&+ \left. \left. \frac{2 (j_{1, out, z, R} - j_{1, inc, z, R} + j_{1, out, z, L} - j_{1, inc, z, L})}{Deltaz} \right) \right) - \frac{1}{\Sigma_{rem, 0}} \left(20 \left(S_0 \right. \right. \\
&- \frac{j_{1, out, x, R} - j_{1, inc, x, R} + j_{1, out, x, L} - j_{1, inc, x, L}}{Deltax} - \frac{j_{1, out, y, R} - j_{1, inc, y, R} + j_{1, out, y, L} - j_{1, inc, y, L}}{Deltay} \\
&- \left. \left. \frac{j_{1, out, z, R} - j_{1, inc, z, R} + j_{1, out, z, L} - j_{1, inc, z, L}}{Deltaz} \right) \right) - 60 \bar{\Phi}_{0, x, 1} - 140 \bar{\Phi}_{0, x, 2} \Big) \\
j_{1, out, x, L} - j_{1, inc, x, L} &= \frac{1}{Deltax} \left(-\frac{32 j_{1, out, x, R}}{3} - \frac{32 j_{1, inc, x, R}}{3} - \frac{32 \hat{j}_{3, out, x, R}}{3} - \frac{32 \hat{j}_{3, inc, x, R}}{3} \right. \\
&- 8 \phi_{2, x, R} - \frac{128 j_{1, out, x, L}}{3} - \frac{128 j_{1, inc, x, L}}{3} - \frac{128 \hat{j}_{3, out, x, L}}{3} - \frac{128 \hat{j}_{3, inc, x, L}}{3} - 32 \phi_{2, x, L} \\
&+ \frac{1}{-5 \alpha + 4 \Sigma_{rem, 0}} \left(40 \left(\frac{5 (\hat{j}_{3, out, x, R} - \hat{j}_{3, inc, x, R} + \hat{j}_{3, out, x, L} - \hat{j}_{3, inc, x, L})}{Deltax} \right. \right.
\end{aligned}$$

$$\begin{aligned}
& + \frac{5 \left(\hat{j}_{3, out, y, R} - \hat{j}_{3, inc, y, R} + \hat{j}_{3, out, y, L} - \hat{j}_{3, inc, y, L} \right)}{Deltay} \\
& + \frac{5 \left(\hat{j}_{3, out, z, R} - \hat{j}_{3, inc, z, R} + \hat{j}_{3, out, z, L} - \hat{j}_{3, inc, z, L} \right)}{Deltaz} \\
& + \frac{2 \left(j_{1, out, x, R} - j_{1, inc, x, R} + j_{1, out, x, L} - j_{1, inc, x, L} \right)}{Deltax} \\
& + \frac{2 \left(j_{1, out, y, R} - j_{1, inc, y, R} + j_{1, out, y, L} - j_{1, inc, y, L} \right)}{Deltay} \\
& + \frac{2 \left(j_{1, out, z, R} - j_{1, inc, z, R} + j_{1, out, z, L} - j_{1, inc, z, L} \right)}{Deltaz} \Bigg) + \frac{1}{\Sigma_{rem, 0}} \left(20 \left(S_0 \right. \right. \\
& - \frac{j_{1, out, x, R} - j_{1, inc, x, R} + j_{1, out, x, L} - j_{1, inc, x, L}}{Deltax} - \frac{j_{1, out, y, R} - j_{1, inc, y, R} + j_{1, out, y, L} - j_{1, inc, y, L}}{Deltay} \\
& \left. \left. - \frac{j_{1, out, z, R} - j_{1, inc, z, R} + j_{1, out, z, L} - j_{1, inc, z, L}}{Deltaz} \right) \right) - 60 \bar{\Phi}_{0, x, 1} + 140 \bar{\Phi}_{0, x, 2} \Bigg) \\
j_{3, out, x, R} - j_{3, inc, x, R} &= \frac{1}{Deltax} \left(21 \phi_{2, x, R} - \phi_{2, x, L} \right. \\
& - \frac{1}{-5 \alpha + 4 \Sigma_{rem, 0}} \left(20 \left(\frac{5 \left(\hat{j}_{3, out, x, R} - \hat{j}_{3, inc, x, R} + \hat{j}_{3, out, x, L} - \hat{j}_{3, inc, x, L} \right)}{Deltax} \right. \right. \\
& + \frac{5 \left(\hat{j}_{3, out, y, R} - \hat{j}_{3, inc, y, R} + \hat{j}_{3, out, y, L} - \hat{j}_{3, inc, y, L} \right)}{Deltay} \\
& + \frac{5 \left(\hat{j}_{3, out, z, R} - \hat{j}_{3, inc, z, R} + \hat{j}_{3, out, z, L} - \hat{j}_{3, inc, z, L} \right)}{Deltaz} \\
& + \frac{2 \left(j_{1, out, x, R} - j_{1, inc, x, R} + j_{1, out, x, L} - j_{1, inc, x, L} \right)}{Deltax} \\
& + \frac{2 \left(j_{1, out, y, R} - j_{1, inc, y, R} + j_{1, out, y, L} - j_{1, inc, y, L} \right)}{Deltay} \\
& + \frac{2 \left(j_{1, out, z, R} - j_{1, inc, z, R} + j_{1, out, z, L} - j_{1, inc, z, L} \right)}{Deltaz} \Bigg) + \frac{40 j_{1, out, x, R}}{3} + \frac{40 j_{1, inc, x, R}}{3} \\
& + \frac{40 \hat{j}_{3, out, x, R}}{3} + \frac{40 \hat{j}_{3, inc, x, R}}{3} - \frac{40 j_{1, out, x, L}}{3} - \frac{40 j_{1, inc, x, L}}{3} - \frac{40 \hat{j}_{3, out, x, L}}{3} - \frac{40 \hat{j}_{3, inc, x, L}}{3} \\
& \left. - 60 \bar{\phi}_{2, x, 1} - 140 \bar{\phi}_{2, x, 2} \right) \\
j_{3, out, x, L} - j_{3, inc, x, L} &= \frac{1}{Deltax} \left(\phi_{2, x, R} - 21 \phi_{2, x, L} \right.
\end{aligned}$$

$$\begin{aligned}
& + \frac{1}{-5\alpha + 4\Sigma_{rem,0}} \left(20 \left(\frac{5 \left(\hat{j}_{3,out,x,R} - \hat{j}_{3,inc,x,R} + \hat{j}_{3,out,x,L} - \hat{j}_{3,inc,x,L} \right)}{Deltax} \right. \right. \\
& + \frac{5 \left(\hat{j}_{3,out,y,R} - \hat{j}_{3,inc,y,R} + \hat{j}_{3,out,y,L} - \hat{j}_{3,inc,y,L} \right)}{Deltay} \\
& + \frac{5 \left(\hat{j}_{3,out,z,R} - \hat{j}_{3,inc,z,R} + \hat{j}_{3,out,z,L} - \hat{j}_{3,inc,z,L} \right)}{Deltaz} \\
& + \frac{2 \left(j_{1,out,x,R} - j_{1,inc,x,R} + j_{1,out,x,L} - j_{1,inc,x,L} \right)}{Deltax} \\
& + \frac{2 \left(j_{1,out,y,R} - j_{1,inc,y,R} + j_{1,out,y,L} - j_{1,inc,y,L} \right)}{Deltay} \\
& + \left. \left. \frac{2 \left(j_{1,out,z,R} - j_{1,inc,z,R} + j_{1,out,z,L} - j_{1,inc,z,L} \right)}{Deltaz} \right) \right) + \frac{40j_{1,out,x,R}}{3} + \frac{40j_{1,inc,x,R}}{3} \\
& + \frac{40\hat{j}_{3,out,x,R}}{3} + \frac{40\hat{j}_{3,inc,x,R}}{3} - \frac{40j_{1,out,x,L}}{3} - \frac{40j_{1,inc,x,L}}{3} - \frac{40\hat{j}_{3,out,x,L}}{3} - \frac{40\hat{j}_{3,inc,x,L}}{3} \\
& \left. - 60\bar{\phi}_{2,x,1} + 140\bar{\phi}_{2,x,2} \right)
\end{aligned}$$