$$\begin{aligned} \partial_{i} \bar{h}_{jk} &= \left( -\frac{2}{r} \tilde{I}_{jk} - \frac{2}{r} \tilde{I}_{jk} \right) \hat{x}_{i} \approx -\frac{2}{r} \hat{x}_{i} \tilde{I}_{jk} \quad \text{for } r \gg \tau \\ \left( \partial_{i} r = \frac{\varkappa_{i}}{r} = \hat{x}_{i} \right) & -\frac{1}{32\pi} \int r^{2} d\Omega_{i} \left( \partial_{0} \bar{h}_{jk} \Omega_{i} \right) \hat{h}_{jk} \hat{x}_{i} = \frac{1}{2} \left\langle \tilde{I}_{ij} \tilde{I}_{ij} \right\rangle_{top} \end{aligned}$$