

$$\begin{aligned}
\mathcal{L}_{\phi h} = & \phi^* \phi \sum_{n=1}^4 a_n \frac{h^n}{\Lambda^{n-2}} + (\phi^* \phi)^2 \sum_{n=1}^2 b_n \frac{h^n}{\Lambda^n} + (\partial^\mu \phi^*)(\partial_\mu \phi) \sum_{n=1}^2 c_n \frac{h^n}{\Lambda^n} + \\
& \partial^\mu (\phi^* \phi)(\partial_\mu h) \sum_{n=0}^1 d_n \frac{h^n}{\Lambda^{n+1}} + J^\mu (\partial_\mu h) \sum_{n=0}^1 e_n \frac{h^n}{\Lambda^{n+1}} + f \phi^* \phi \frac{(\partial^\mu h)(\partial_\mu h)}{\Lambda^2}
\end{aligned}$$