

$$\begin{aligned}
A_{LT}(\phi, \phi_S) &= \frac{1}{P_e P_T} \frac{Y_+(\phi, \phi_S) - Y_-(\phi, \phi_S)}{Y_+(\phi, \phi_S) + Y_-(\phi, \phi_S)} \\
&\sim A_{LT}^{\cos(\phi - \phi_S)} \cos(\phi - \phi_S) \\
&\sim g_{1T} \otimes D_1
\end{aligned}$$