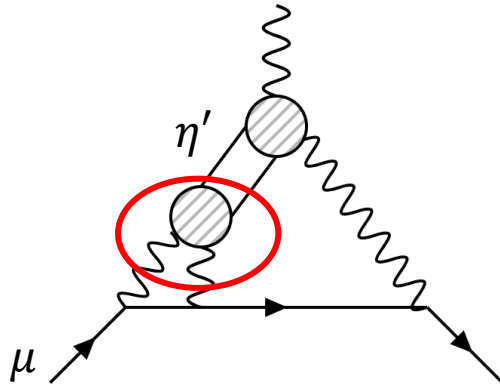
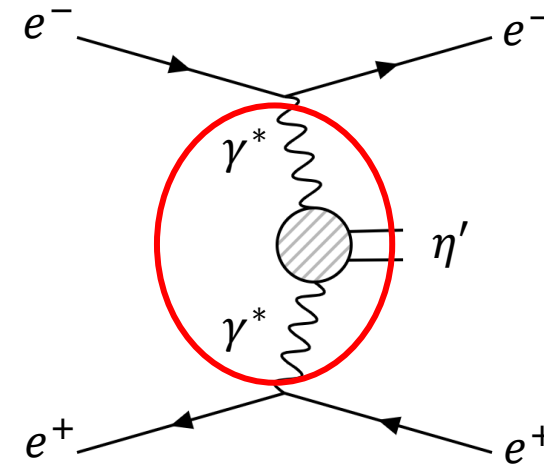


Investigation of $\gamma^* \gamma^* \rightarrow \eta'$ at the BESIII Experiment

- Double-virtual **Transition Form Factor (TFF)** $F_{\gamma^* \gamma^* \rightarrow \eta'}(Q_1^2, Q_2^2)$ of η'



Pseudoscalar meson contribution to a_μ^{HLbL}



Two-photon scattering in $e^+ e^-$ collisions

- Access momentum transfers Q_1^2, Q_2^2 by “double-tagging” scattered e^\pm
- **Beijing Spectrometer III (BESIII)** can measure $Q_1^2, Q_2^2 < 2 \text{ GeV}^2$

➔ where $> 90\%$ of total η' contribution expected [Phys.Rev.D 94 (2016) 5, 053006]