

theory status $\gamma^*\gamma^*(\gamma)\pi\pi$

- pole (FsQED) not sufficient
- beyond-pole WIP
 - estimate via $\gamma^*\gamma^*\gamma \rightarrow \rho$?

MC $\pi\pi\gamma$ status / presented here @ NLO

- Sherpa: FxsQED+YFS
- Phokhara: FxsQED+CEEX, GVMD—
- BabaYaga: FxsQED+PS, GVMD+PS, FsQED+PS
- McMule: (partial) FsQED+blob

what are important contributions?

how to bring in MC friendly form?

additional meson decays at ϕ ?

how to best compare / assess error from different pion treatments?

we need a new common comparison VFF

what makes sense – what's next?

- two-loop $ee \rightarrow \pi\pi(\gamma)$ in GVMD/FxsQED/FsQED ?
- ...

- convention BabaYaga+Phokhara compared to McMule: complicated (see other notes)
- BabaYaga/Phokhara come up with new GVMD-friendly VFF as close as possible to the RCMLW2 Phase 1 one
 - FsQED will continue using the RCMLW2 Phase 1 one
 - BabaYaga can run $ee \rightarrow \pi\pi$ with both VFF, check what differences are
 - then: update plots!
- BabaYaga+Phokhara and McMule: solve issues in $\pi\pi\gamma$
 - once done (both groups): email mailing list
 - once both done: schedule Zoom meeting to discuss potential physics / technical comparison
- estimate via $\gamma^*\gamma^*\gamma \rightarrow \rho$ – yes!