

Z boson decay into a (pseudo)scalar and a photon at the FCC-ee/CEPC

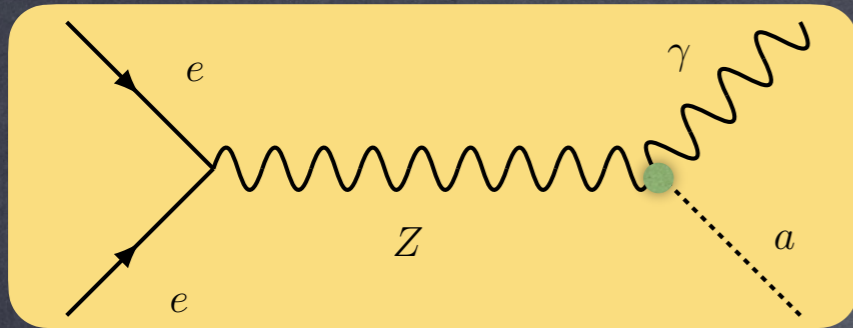
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Who are we?

S.Gascon, G.Moreau, G.Cacciapaglia, S.Mukherjee, T.Srivastava, J.Xiao, E.Jourd'hui

What are we interested in?

Inspired by composite Higgs models, study (pseudo)scalars that are produced via rare Z decays (with a photon)



- Inspired by composite models, but applies to all ALP models!
- Production rate and decay length are correlated.
- Decays $a \rightarrow \gamma\gamma$ or $a \rightarrow b\bar{b}/\tau^+\tau^-$.
- Study HL-LHC reach in prompt and LLP regions.
- Study reach at next e^+e^- collider.

