

Phenomenology 2022 Symposium: From Virtual to Real



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Heavy QCD Axions at the LHC and Neutrino Experiments

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Heavy QCD axions with masses $O(\text{GeV})$ and decay constants $O(1-100 \text{ TeV})$ can solve the Strong CP and the Axion Quality Problem. They also represent an interesting target for various terrestrial searches. In this talk, I will discuss two new approaches in searching for such axions: (a) a trigger-level analysis to look for low-mass diphoton resonances at the LHC; and (b) looking for fermionic final states at present and future neutrino experiments.

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