

Phenomenology 2025 Symposium



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Axion-like Particles at the Electron-Ion Collider

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The Electron-Ion Collider (EIC) will have the capability to collide various particle beams with large luminosities in a relatively clean environment, surrounded by a large angular coverage detector. Our analysis focuses on the EIC's sensitivity to Axion-like particles (ALPs) that are created via photon fusion and promptly decay to photons. We explore this predominantly through coherent electron-ion scattering in the 0.1-50 GeV ALP mass range, which has the potential to extend reach to untouched ALP-photon coupling parameter space.

Mini Symposia (Invited Talks Only)

Plenary (Invited talks only)

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