

# Phenomenology 2025 Symposium



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## Light Axion-Like Particles at Future Lepton Colliders

*Monday 19 May 2025 16:45 (15 minutes)*

We study the interactions between light axion-like particles (ALPs) and the Standard Model electroweak gauge bosons at future lepton colliders. In the long-lived ALP regime, mono-photon and mono- $Z$  production channels are exploited, while for ALPs with shorter lifetimes, non-resonant vector boson scattering processes are used. Our combined analysis shows that future lepton colliders can significantly improve the constraints on the ALP-boson couplings.

### Mini Symposia (Invited Talks Only)

### Plenary (Invited talks only)

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