## Phenomenology 2025 Symposium



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## Shining a Light on (Non-)Minimal Dark Sectors With 21-cm Cosmology

Tuesday 20 May 2025 15:45 (15 minutes)

Future observations of the sky-averaged 21-cm signal during the cosmic dawn promise unprecedented measurements of the gas temperature in this epoch. Such measurements can place extremely strong constraints on the lifetime of dark matter. We revisit the projected bounds on minimal decaying dark matter scenarios and present new constraints for theoretically motivated non-minimal dark sectors, specifically focusing on axion-like particle sub-components and inelastic dark matter.

## Mini Symposia (Invited Talks Only)

## Plenary (Invited talks only)

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