

## Roadmap of Dark Matter models for Run 3



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# Beyond the Dark matter effective field theory and a simplified model approach at colliders

*Tuesday 14 May 2024 17:00 (15 minutes)*

In this talk, I will review the importance of “Gauge invariance” in the search for Dark matter at the High Energy Collider including LHC.

The major topics I will include will be

- 1) The limit of effective field theory / simplified model approach at the High Energy collider
- 2) Dark matter showering at the High Energy collider

**Primary author:** Prof. PARK, Myeonghun (Seoultech)

**Co-author:** Prof. KO, Pyungwon (KIAS (Korea Institute for Advanced Study))

**Presenter:** Prof. PARK, Myeonghun (Seoultech)

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