

The Thermal Target

DM with a thermal origin (contact with SM) paradigm is a **compelling** case

Accelerators can test this scenario
Light DM in the vicinity of the Weak scale big blindspot

If discovery
accelerator probes can yield
underlying mediator physics
+ mass scale

Are there proposals to achieve this with
small scale + in the next ~ 5 years?

Yes!
More from Bertrand

Probing the thermal relic target with accelerator-based experiments

Very fruitful workshop! Special thanks to all contributors.

Over 20 talks in WG3 parallel sessions, including current results, new theoretical ideas, facilities and new proposals, as well as interesting discussions.

Common theme amongst new proposals: robustly probing the thermal relic target in the MeV-GeV range with different approaches.

Advantage of accelerator-based approaches

- Vast majority of these proposals are based on proven technology / techniques
- Leveraging existing facilities / accelerators (parasitic runs / small additions)

Cost effective and deployable in the near future.

