Towards a whitepaper for *t*-channel DM models

Goals

- Review of the state of the art (collider, cosmology, *etc.*)
- Benchmark for run 3 and future searches at the LHC

Timeline and WG activities

- Draft of each contribution by early July
- One WG meeting every 4-5 weeks

A promising table of contents

- Interplay with cosmology (relic, DD, ID)
- Collider probes (NLO/LO, signal modelling)
- Recasting
- Specific models
  - → Simplified quark-philic models
    (1st generation, 2nd generation, 3rd generation, universal)
  - → Simplified lepto-philic models
  - → Simplified quark-philic models
  - → Non-minimal models

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Contact persons

- Generalities: Benjamin Fuks, Benedikt Maier & David Yu
- Cosmology: Chiara Arina
- Colliders ⊕ universal models: Luca Panizzi
- 2nd/3rd generation: Rute Costa Batalha Pedro
- Lepto-philic models: Michael Baker
- LLPs: Jan Heisig
- Non-minimal models: Alan Cornell

Still room for new contributions
(contact us!)