# **Our Team**



31 Aug 2020

Snowmass EF-08 / Compressed EWK SUSY

# **Region of Interest @Penn**



### Would like to understand the discovery potential of:

- Mono-jet: Very impressive sensitivity in the ES. What to reproduce & understand.
- Mono-jet+X (soft-2L, soft-3L, soft displaced tracks?)

Naively thinking should improve the mono-jet only sensitivity in  $\Delta m = O(1-10)GeV$ How the "gap" will be filled in?

### in hadron colliders (HL-LHC, FCC-hh).

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• DELPHES-based analysis for direct comparison with the other colliders.

Interested also in contributing to the MC generation task force.

### Realistic "fake lepton" BG modeling

Understanding the composition (Heavy-flavor decays, pion in-flight decays in jet etc.) Feedback from current ongoing hadron colliders?