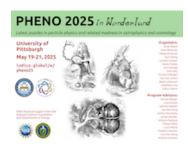
## Phenomenology 2025 Symposium



Contribution ID: 194 Type: not specified

## Twin Peak Dark Matter and Gravitational Wave Signal

Monday 19 May 2025 15:45 (15 minutes)

We explore a conformal dark matter model based on the gauge group  $SU(N_c) \times U(1)_D$ , from which we can obtain confinement of bound-state dark matter at a dark QCD scale, and a WIMP and self-interacting dark matter at a higher energy scale, around 1 TeV, along with the possibility of gravitational wave (GW) production from strong first-order phase transitions at both scales. We expect that the predicted GW spectra will have sensitivity strong enough to be probed at the frequency range windows observable with NANOGrav and LISA, respectively.

## Mini Symposia (Invited Talks Only)

## Plenary (Invited talks only)

Author: GOMEZ CORTES, Brenda (University of Pittsburgh)

Co-authors: DASGUPTA, Arnab; GHALSASI, Akshay (Harvard University); LEYS, Monica (University of

Pittsburgh)

Presenter: GOMEZ CORTES, Brenda (University of Pittsburgh)

Session Classification: Astro-particle

Track Classification: Astro-Particle Physics