## Phenomenology 2023 Symposium



Contribution ID: 205 Type: not specified

## A Twin Higgs Model with SU(4) Color

Monday 8 May 2023 16:45 (15 minutes)

Twin Higgs models address the hierarchy problem and can provide interesting dark matter possibilities. However, the cosmology of these models can be problematic.

I present a new twin Higgs model in which the usual color group originates from the spontaneous breaking of a gauged SU(4) symmetry in the visible sector. In the hidden sector the SU(4) is not broken leading to new dark matter possibilities. I present the signals necessary to observe this model in collider experiments, and address its cosmological effects on  $N_{effective}$ .

Primary author: PAGE, Logan (Brigham Young University)

**Presenter:** PAGE, Logan (Brigham Young University)

Session Classification: BSM VI

Track Classification: BSM