

# New early dark energy and its equation of state

*Wednesday 20 November 2024 15:20 (1 hour)*

Cold New Early Dark Energy (NEDE) addresses the Hubble tension using a triggered vacuum phase transition in the dark sector. In this work we constrain the phenomenological fluid model properties of NEDE using recent datasets. We allow the equation of state parameter, characterizing the post-phase transition fluid, to evolve in time. We discuss simple physical scenarios where such a time-dependence can arise.

**Presenter:** CHATRCHYAN, Aleksandr