## Whispers from the Dark Universe - Particles & Fields in the Gravitational Wave Era

CLUSTER OF EXCELLENCE QUANTUM UNIVERSE **DESY THEORY WORKSHOP** 

## WHISPERS FROM THE DARK UNIVERSE PARTICLES & FIELDS IN THE GRAVITATIONAL WAVE ERA

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## A new solution of the Dark Matter-Baryon Coincidence

Thursday 26 September 2024 14:30 (15 minutes)

The comparable abundances of dark matter and baryons urge for an explanation that relates the dark sector to the QCD sector. In Asymmetric Dark Matter models, the number densities of both sectors are naturally similar. However, a complete solution should also include a mechanism for comparable masses. In this talk, I will present a new solution where the dark matter mass is generated by the QCD condensate, ensuring the mass is at the GeV scale. The UV completion and relevant phenomenology will also be discussed.

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