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Generating GeV-scale Dark Matter masses from the QCD vacuum

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The comparable abundances of dark matter and baryons, known as the Dark Matter-Baryon coincidence, call for an explanation that relates the dark sector to the QCD sector. In models of Asymmetric Dark Matter, the number densities of both sectors are naturally similar. However, a complete solution should also include a mechanism to ensure comparable masses. In this talk, I will present a new solution where the dark matter mass is generated from the QCD vacuum, setting it at the GeV scale as baryon masses. The UV completion with chiral strong dynamics and relevant phenomenology from the dark QCD sector will also be discussed.

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