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Baryons in the V-QCD holographic model

Tuesday, 14 March 2023 11:50 (20 minutes)

Baryons in holography arise as bulk instantons of the flavor gauge fields. In this talk I will discuss how these solutions are obtained in the class of models called V-QCD (a phenomenological holographic model for QCD in the Veneziano limit). I will discuss the role of Chern-Simons terms, how bulk instanton number is related to boundary baryon charge once suitable regularity conditions are imposed, and I will present numerical solutions in a concrete model.

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