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A 5D Model of Baryons and Mesons

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Using the prescriptions of the AdS/CFT correpondence it is possible to build Extra Dimensional models that describe low energy hadrons. I will review a simple 5D model of QCD in which mesons are represented by bulk fields and baryons arise as solitons, in analogy to the original Skyrme model. Contrary to 4D Skyrmions, however, baryon physics is calculable in this effective description, so it provides a useful framework for computing nucleon properties. This holographic model also describes pion masses and anomalies due to the addition of a 5D scalar and the Chern-Simons term.

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