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Pseudoscalar mesons and Emergent Hadronic Mass in the Standard Model

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The importance of the Higgs boson in the evolution of the Universe is well known. Yet, only a tiny fraction of the mass of the visible universe can be attributed to the Higgs mechanism alone. In fact, the overwhelming majority arises from the strong interactions of quantum chromodynamics, through a mechanism nowadays dubbed Emergent Hadronic Mass (EHM). Thus, weak and strong mass generation interfere constructively, giving birth to the plethora of hadrons that exists, and its properties. In this talk, we shall discuss how pseudoscalar mesons represent an insightful window in understanding these mass generating mechanisms and their implications, highlighting some important contributions of the Continuum Schwinger methods approach.

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