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Isospectrality in hadronic bottom-up models

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In physics, isospectrality deals with two Hamiltonians with the same energy spectrum. This discussion was developed up to the early 1980s, particularly in the context of the Darboux transform, a mathematical technique used to generate new solutions to the Schrödinger equation in supersymmetric quantum mechanics. In bottom-up holography, one of the key ingredients is the dilaton field, which sets the confinement and the mass spectrum scale. In this talk, we will discuss how isospectrality and configurational entropy allow us to explore dilaton-based models.

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