

## Study of some (non-)conventional mesons in the framework of effective models.

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The main aim of our study is to understand some conventional and non-conventional mesons by using an effective QFT models. Starting from a single  $q\bar{q}$  seed state in the Lagrangian some states appear as a dynamically generated companion poles. We show that  $K_0^*(700)$  is a companion pole of the heavier  $K_0^*(1430)$  resonance,  $X(3872)$  emerges as a virtual companion pole of  $\chi_{c1}(2P)$ , and the puzzling  $Y(4008)$  is not a real state but an enhancement which appears when studying the state  $\psi(4040)$ .

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