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Open-Flavour Mesons from the Angle of Bethe, Dyson, Salpeter, Schwinger, et al.

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In order to paint, within a common framework, a comprehensive picture of the description of mesons as quark–antiquark bound states by a Bethe–Salpeter formalism drawing on the outcomes of the Dyson–Schwinger equation for the quark propagator, we complement existing discussions of quarkonia (i.e., same-flavour quark–antiquark bound states) by a thorough investigation of open-flavour mesons composed of all conceivable combinations of quark flavour and present predictions for these mesons’ masses, leptonic decay constants, and in-hadron condensates, arising from a single model characterized by a fixed set of parameter values for all states under study.

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