

Abstract Submitted
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Excited J^{--} meson resonances at the $SU(3)$ flavor point from lattice QCD CHRISTOPHER JOHNSON, William Mary, HADSPEC COLLABORATION — While the lightest vector mesons, the ρ , ω and ϕ are well understood and the inspiration for phenomenological statements like the OZI rule, their excited states remain poorly known. In the first lattice QCD study of its kind, the spectrum of excited $J^{PC} = 1^{--}$ resonances is determined, finding two vector states, one lighter and broad, and the second heavier and narrow. The 2^{--} and 3^{--} partner states are also extracted in this calculation.

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