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1^{-+} Light Hybrid Decay

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We explore the decay properties of the isovector and isoscalar 1^{-+} light hybrids π_1 and η_1 π_1 in $N_f = 2$ lattice QCD at a pion mass $m_\pi \approx 417$ MeV. The McNeile and Michael method is adopted to extract the effective couplings in $N_f = 2$ QCD for the decays.

The $N_f = 3$ degenerate QCD result with physical mixing angle is also a partial quench result.

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