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Masses of D-Hybrids from QCD Sum-Rules

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Hybrids are hypothesized hadrons containing explicit quark, antiquark, and gluon degrees of freedom. D-hybrids are hybrids containing a charm quark and a light quark (i.e., up, down, or strange). We use QCD sum-rules to predict masses of spin-0,1 D-hybrids of both positive and negative parity. Our correlator calculations take into account condensates up to and including those of dimension-six. In addition, we investigate possible mixing between hybrids and conventional mesons.

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