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Searches for glueballs at BESIII

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The search for glueballs – colorless bound states of gluons – is one of the most important tasks within the modern QCD. While parameters of glueballs are predicted under a wide range of models, their experimental observation is extremely difficult due to the mixing with the conventional mesons. Glueballs are predicted to be abundantly produced in glue-rich processes, such as charmonia decays. In this talk we present results of searches for various glueball states performed using uniquely large datasets of charmonia decays obtained by the BESIII experiment.

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