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The vector charmonia at BESIII - and how to interpret them

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The charmonium spectrum is well understood below the open-flavour threshold. Above threshold, however, experiments have found a large number of new, potentially exotic hadrons that do not always match our expectations for regular charmonium hadrons - the XYZ states. Using e^+e^- annihilation to produce pairs of charm and anti-charm quarks, the BESIII experiment is particularly well suited to study the vector charmonia. In this talk, I will discuss recent measurements of open- and hidden-charm production above the open-flavour threshold, as well as a path towards a common interpretation of that data using a coupled-channel approach.

Collaboration

BESIII

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