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## Charmonium-like states at BESIII

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In recent years, a number of charmonium-like states have been observed above the open-charm threshold in various experiments. Their properties often go against our expectations for regular charmonium states, rendering their interpretation difficult. With BESIII, we are a leading contributor to the experimental studies of the so-called XYZ states –studying Y-states directly in  $e^+e^-$  annihilation, while producing X and Z states in hadronic and radiative transitions. In this talk, several very recent results from the BESIII program on charmonium-like states above the open-charm threshold will be discussed.

Main references: arXiv:2505.13222; Phys. Rev. Lett. 135, 071901 (2025); Phys. Rev. D 112, 032002 (2025); Phys. Rev. D 111, 112007 (2025)

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