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Exotic and conventional bottomonium studies at BELLE II

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The Belle II experiment, about to start taking data at the KEK laboratory in Japan, is a substantial upgrade of both the Belle detector and the KEKB accelerator.

It aims to collect 50 times more data than existing B-Factory samples beginning in early April 2018.

Belle II is uniquely capable to study the so-called “XYZ” particles: heavy exotic hadrons consisting of more than three quarks.

First discovered by Belle, these now number in the dozens, and represent the emergence of a new category within quantum chromodynamics.

This talk will present the capabilities of Belle II to explore exotic and conventional bottomonium physics.

There will be a particular focus on the physics reach of the first data, where opportunities exist to make an immediate impact in this area.

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