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Heavy flavour spectroscopy at LHCb

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The latest years have seen a resurrection of interest in searches for exotic states motivated by tantalising observations by Belle and CDF. Using the data collected at pp collisions at 7 and 8 TeV by the LHCb experiment we present studies of the $X(3872)$ properties as well as preliminary studies and prospects for studies of putative states such as the $Z(4430)^+$.

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