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Studies of exotic charmonium and bottomonium states with the CMS experiment

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CMS has searched for exotic charmonium states in the data sample collected in proton-proton collisions at 7 TeV in 2011. The $X(3872)$ state is reconstructed in the $J/\psi \pi^+ \pi^-$ decay channel and the production cross-section is computed by determining the ratio to $\psi(2S)$ production in the same decay channel. For the first time, prompt and non-prompt contributions to the $X(3872)$ cross section are disentangled by looking at secondary vertices. Furthermore, we also report on searches for other exotic quarkonium states.

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