

# Heavy meson production and spectroscopy at CMS

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## Collaboration

CMS

## Abstract content

CMS experiment accumulated  $20 \text{ fb}^{-1}$  and  $5 \text{ fb}^{-1}$  of proton-proton collision data at  $\sqrt{s} = 8 \text{ TeV}$  and  $\sqrt{s} = 7 \text{ TeV}$  in Run I. We have analyzed these data and produced fruitful results on heavy meson production and conventional and exotic meson spectroscopy. This talk will present new results from CMS covering  $J/\Psi$ ,  $\Upsilon$  cross section and polarization measurements,  $B_c$  branching fraction measurement,  $X(3872)$  cross section measurement, observation of  $Y(4140)$ , search for  $X_b \rightarrow \Upsilon(1S)\pi\pi$ , as well as other new results to date.

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