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## First results in Heavy Flavor Physics at CMS

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The analysis of data collected by the CMS experiment in 2010 (equivalent to an integrated luminosity of 40 pb<sup>-1</sup>) has yielded several physics results concerning the production mechanisms of heavy flavors at the unprecedented center-of-mass energy of 7 TeV.

Reconstruction techniques of heavy-flavored particles will be shown, with particular focus on the triggers expressly designed to select them. Measurements of the b-bbar cross section both with jet “b-tagging” techniques and exclusive states, such as B<sup>0</sup>, B<sup>+</sup> and B<sub>s</sub>, will be presented, as well as comparisons with theoretical predictions.

Charmonium and bottomonium cross-section measurements will be shown, and, in the J/psi case, the first determinations of the B-decay feed-down fractions and polarization.

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