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Produzione e polarizzazione di J/ψ a CMS

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This contribution describes the measurement of J/ψ inclusive, prompt and non-prompt cross section using the dimuon channel in the CMS experiment, recently published on EPJC. The analysis is now close to be updated to 40 pb⁻¹ data (the full 2010 statistics) with the inclusion of the $\psi(2S)$ cross section. An important contribution to the systematics for this analysis is given by the uncertainty on the prompt J/ψ polarization, in particular the detector acceptance is strongly dependent by the leptons' angular distribution. A complex framework for a measure of the J/ψ polarization has been developed by the CMS collaboration and a measure of the angular parameters is foreseen for the coming months. A brief description of the main problematics of the polarization measurement is also given.

Presenter: FIORI, Francesco (PI)

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