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Associated Z boson production in the forward region

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A measurement of the $Z(\rightarrow\mu+\mu^-)+\text{jet}$ production cross-section in pp collisions at a centre-of-mass energy $\sqrt{s}=7$ TeV is presented. The results show good agreement with theoretical predictions at the second-order expansion in the coupling of the strong interaction. We also report about the observation of associated production of a Z boson with a D meson

Primary author: LEROY, Olivier (CPPM, Aix-Marseille Université, CNRS/IN2P3, Marseille, France)

Presenter: SIRENDI, Marek (University of Cambridge (GB))

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