

Luminosity calibration with the Van der Meer method in proton-proton collisions at the CMS experiment

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Van der Meer scan result Scan 4: X-plane BCID 1783  $\chi^2$  / ndf - / (N1\*N2) [a.u.]  $\sigma_1/\sigma_2$ **CMS Preliminary** Amp VdM Scan: Fill 4954 Frac Mean Const

## Visible cross section

