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## Differential jet cross sections at the CMS experiment

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We present measurements of differential jet cross sections over a wide range in transverse momenta from inclusive jets to multi-jet final states. Studies on the impact that these measurements have on the determination of the strong coupling  $\alpha_s$  as well as on parton density functions are reported.

**Author:** KAUR, Anterpreet (Panjab University (IN))

**Co-author:** CMS COLLABORATION

**Presenter:** KAUR, Anterpreet (Panjab University (IN))

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