

Strong coupling constant extraction from high-multiplicity Z+jets observables

Tuesday, 28 August 2018 14:55 (20 minutes)

I will present a strong coupling constant extraction at next-to-leading order QCD accuracy using ATLAS Z+2,3,4 jets data. This is the first extraction using processes with a dependency on high powers of the coupling constant. The values of the strong coupling constant at the Z mass obtained are compatible with the world average and with uncertainties commensurate with other next-to-leading order extractions at hadron colliders.

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Session Classification: PDFs, α_s and soft QCD

Track Classification: PDFs, α_s and soft QCD