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Recent developments in Small- x Resummation

I will discuss recent developments in the theory of small- x resummation. These include the matching of resummation to fixed NNLO (and even N³LO), the construction of a variable flavour number scheme at small x , the resummation of the heavy-flavour matching conditions, a new formalism for the resummation of physical observables, and a variety of technical improvements. All these results have been implemented in a public code, HELL, which made possible the determination of PDFs with small- x resummation, showing a significantly better agreement with HERA data at low x . The impact of resummation at present and future colliders will be discussed.

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