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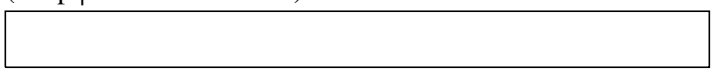

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High Energy Physics - Phenomenology

Title: Parton Distributions and $α_s$ for the LHC

Authors: S. Alekhin, J. Blümlein, S. Moch
(Submitted on 5 Mar 2013 (v1), last revised 16 Mar 2013 (this version, v2))

Abstract: We report on recent determinations of NNLO parton distributions and of $\alpha_s(M_Z)$ based on the world deep-inelastic data, supplemented by collider data. Some applications are discussed for semi-inclusive processes at the LHC.

Comments:	14 pages Latex, 11 pdf figures, Proceedings: Physics in Collision 2012
Subjects:	High Energy Physics - Phenomenology (hep-ph); High Energy Physics - Experiment (hep-ex)
Report number:	DESY 13-021, DO-TH 13/05, SFB/CPP-13-012, LPN13-016
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