

PAUL SCHERRER INSTITUT



# Particle Theory Seminar

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“Dynamical parton distributions”

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**Abstract:**

The new generation of dynamical LO, NLO and NNLO parton distributions is presented. Results for the strangeness asymmetry in the nucleon, the longitudinal structure function of the proton and the role of heavy quark flavors at high energy colliders are discussed. Finally predictions for weak gauge and Higgs boson production at hadron colliders are given at NNLO of QCD.