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## Single, double and central diffractive dissociation of protons at high energies

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Single, double and central diffractive dissociation of protons is studied at high energies in a Regge-pole model. The main premises are: 1) Regge factorization, 2) inelastic vertices identified with DIS SFs, 3) Duality relation between high- and low missing masses, 4) Non-linear, complex Regge trajectories, updated.

The new results concern: 1) the dip-bump structure in the differential cross sections of single diffraction; 2) angular distribution of particles resulting from the decay of diffractively produced resonance.

Within the model we analyze the existing and future LHC data, including the widths of produced resonances, including glueballs and those containing heavy quarks.

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**Session Classification:** Low x, PDFs and hadronic final states

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