

## The dynamic of diffractive structure functions at high energies

*Tuesday 21 June 2011 15:00 (20 minutes)*

We describe the most recent H1 and ZEUS diffractive DIS data obtained by various methods with very large uncertainties associated with the treatment of proton dissociation processes and compare them in detail. We consider pomeron as an object with parton distribution function, evolving according to the DGLAP equations. the gluon

distributions are found to be quite different for methods of H1 and ZEUS. We perform a global analysis and achieve a very good description of all available measurements. Our results for longitudinal diffractive structure function are in good agreement with recently measured longitudinal structure function data points.

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**Session Classification:** Contributed Talks

**Track Classification:** Particle Factories, Accelerator Physics and future TeV scale colliders