

SMIX activities

S_{mall x} and M_{ultiple} I_{nter}a_Xions Initiative

V. F. Andreev, K. Borras, A. Bunyatyan, M. Deak, H. Jung, M. Kapichine, L. Khein, A. Knutsson, K. Kutak,
L. Lytkine, Z. Rurikova, Z. Staykova

- **SMIX activities around QCD and small x**
 - new processes for fwd jets are calculated and implemented into CASCADE (M. Deak, K. Kutak)
 - studies of forward jet production in association with central jets performed by A. Knutsson (hadron level, plans for DPG and HERA-LHC WS)
 - studies of underlying events and multiparton interaction continued (A. Buniatian, Z. Rurikova)
 - energy deposition in CASTOR region and heavy quark production
- participating now in **CMS forward physics meeting** and reporting on activities

Terascale Alliance Analysis Center

- **Monte Carlo group:**
 - service & maintenance of MC generators (GENSER mirror at DESY)
 - activities starting for validation of MC generators
 - activities for MC tuning
 - further development of MC generators
 - people involved: H. Jung, A. Knutsson, K. Lipka
 - help/contributions from CMS are welcome...
- **Monte Carlo school: 21-25 April 2008**
 - lectures on Monte Carlo method and specific generators
 - NLO calculations and NLO + PS
 - Fitting procedures
 - Tutorials & Exercises
 - <http://www.terascale.de/mcs2008>