

**Conclusions about hadronic interaction in
Pixels (ATLAS 2001 test-beam)**

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- There are some features of the data which are not reproduced by any model and seem not related to the calibration issue;
- We have regenerated the simulation with a more reasonable density of the pixel circuit board, to test if more backscattered ionizing hadrons/ions could improve the comparison with the data. But there are no significant changes in any observable.
- The conclusion is the same as in the last presentation: Fluka and Geant4 offer a more or less similar description of the ATLAS Pixel test-beam data; the overall level of agreement between simulation and data is reasonably good, although not excellent in some observables.
- The results will be included in a LCG note which is in progress. Mikhail Kossov is trying to improve the reconstruction for further physics validation of his models.