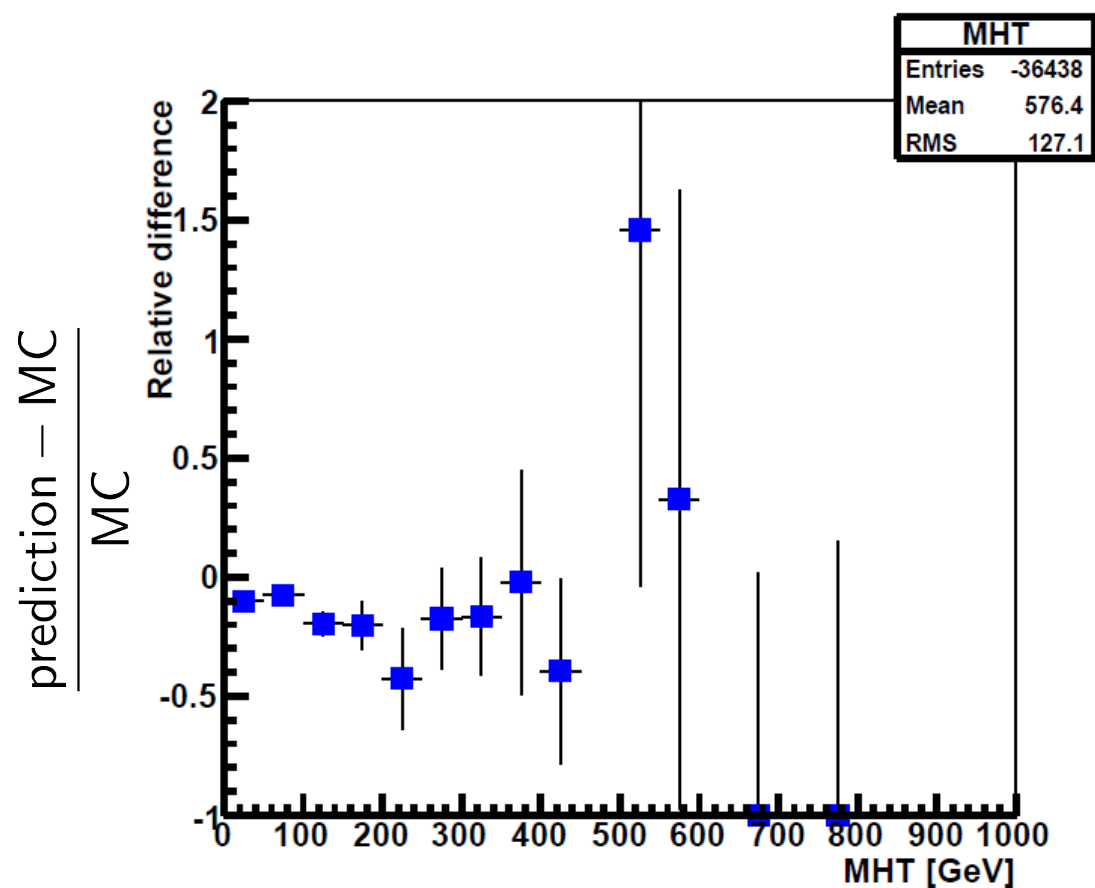
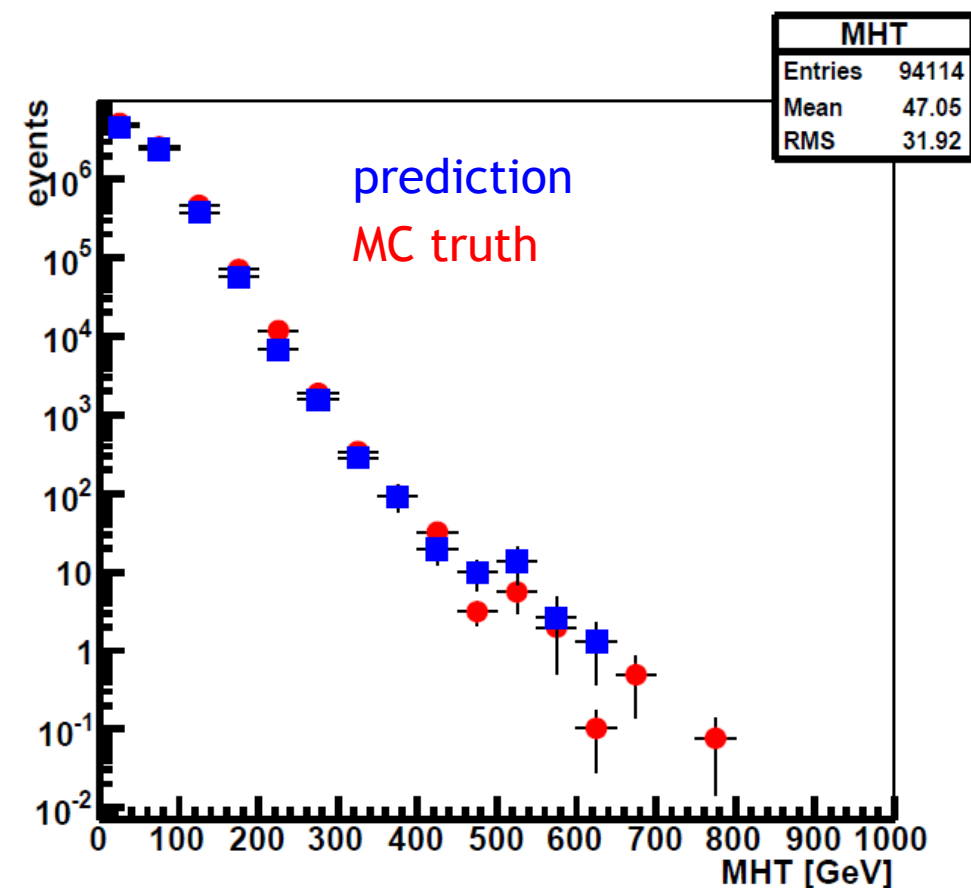


Update on “Smearing Method”

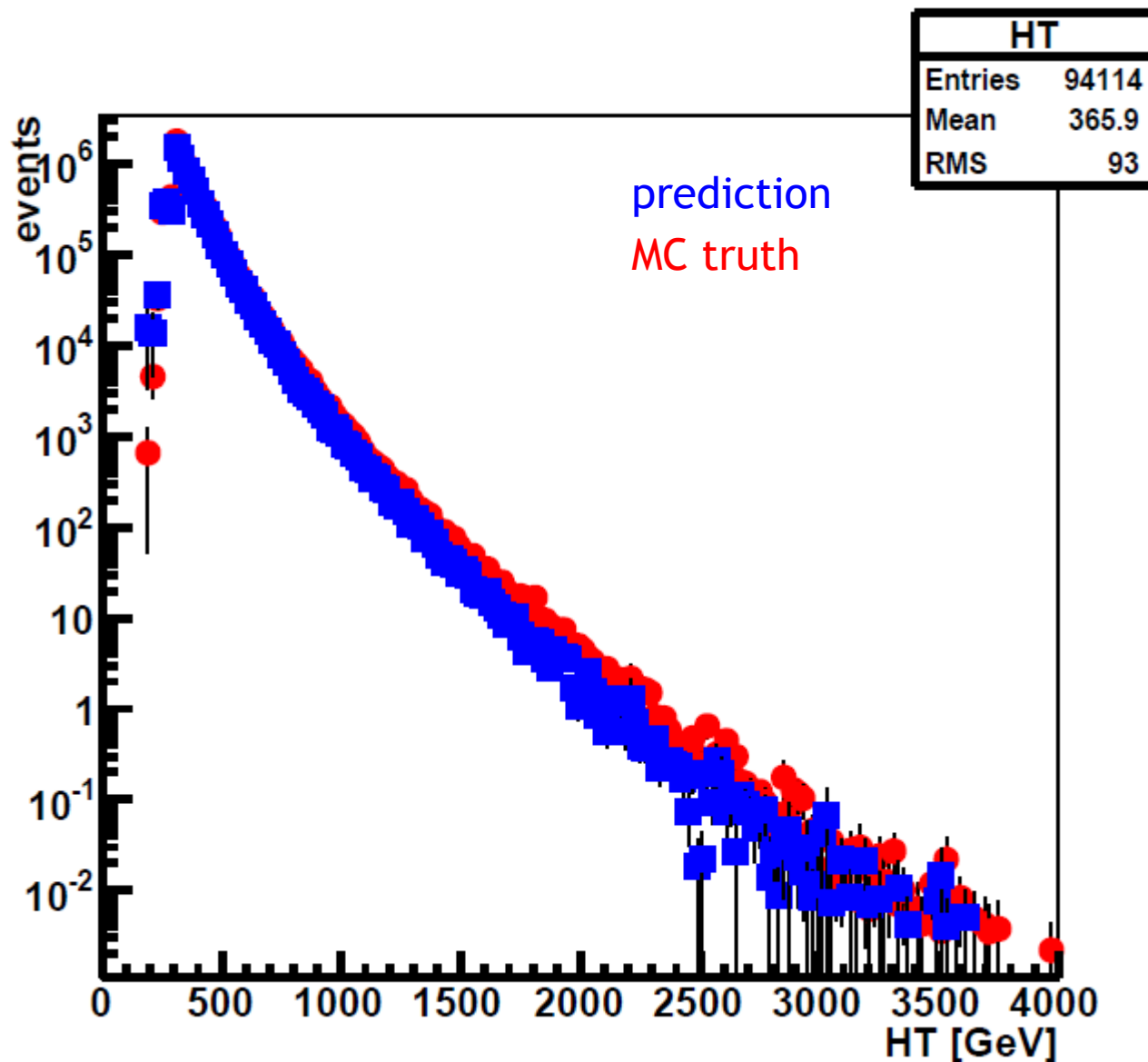
C. Sander, *Hamburg University*

SUSY group meeting – 9th June 10



- Select seeding events: ... $MHT < 50 \text{ GeV} + HT > 300 \text{ GeV}$
- Rebalance jets above 20 GeV (not including soft jets or unclustered energy)
- Smear all rebalanced jets according to MC resolution function
- $MHT < 50 \text{ GeV}$ introduces bias towards smaller HT $\rightarrow$ underestimation of MHT

- Predicted HT distribution a bit softer than MC truth
- Idea: use MHT significance as selection criterion for seeding events



- FastSim vs. FullSim comparison:
 - Inclusive MHT distribution
 - N-1 plot of MHT distribution for typical RA2 cuts
 - Used sample: RelVal_QCDflat_pthat15to3000 (full: 9k, fast: 27k events)
 - Used DQM/Physics/Susy module for histos
 - For both distributions: good agreement (but more statistics might be needed)
 - A more detailed comparison should be done by each reference analysis group
- Status of PATtuple validation:
 - Niklas has succeeded to put validation histos inside the EDM files
 - Validator has to run only harvesting step
 - Goes into PATrecipe for 3_7_X

