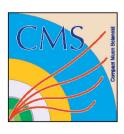




HRJRG III Contributions from DESY-YIG "Supersymmetry at the Terascale"

Isabell-A. Melzer-Pellmann



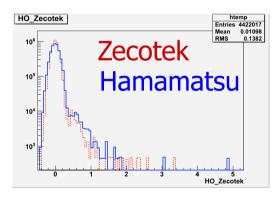
Contributors and Projects

Hardware Project:

- Teststand for SiPMs Upgrade of CMS HO Ring 0 Manpower:
 - Benjamin Lutz (DESY Fellow)
 - Jakob Salfeld-Nebgen (PhD Student)

Software Projects – HO related:

- Analysis of already available SiPM signals in HO Manpower:
 - Altan Cakir (Postdoc in YIG)
 - Jakob Salfeld-Nebgen (PhD Student)
- Study of improvement of jet reconstruction / MET resolution with working HO
- SUSY analyses using improved MET reconstruction (di-lepton analyses with muons and electrons)



Connection to MSU

Calculations in CompHEP from MSU to produce LHA files

- → LHA files can then be analysed with CMSSW by YIG
- → Results on these can then be used for the LC calculations

Contributors and Projects

Software Projects – HB related:

- Study possibility of improving Particle Flow Energy resolution with segmented HCAL
- (Reminder: Improvement of Calorimeter-only energy resolution with weighting was shown, but Particle Flow is still better)
- Manpower: ???