

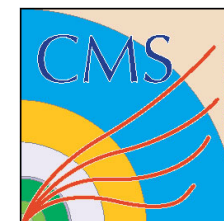


HRJRG III

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:

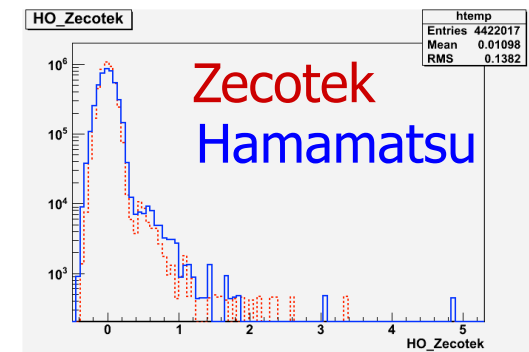
- Benjamin Lutz (DESY Fellow)
- Jakob Salfeld-Nebgen (PhD Student)

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)



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: ???