



HRJRG III

Contributions from DESY-YIG

“Supersymmetry at the Terascale”

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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:

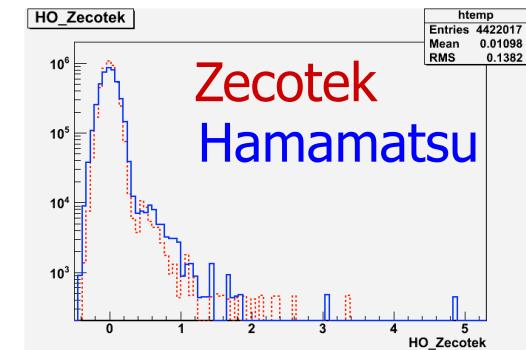
- Analysis of already available SiPM signals in HO

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: ???