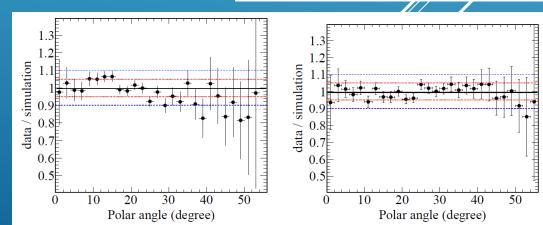
# TOWARDS A FULL AND REALISTIC SIMULATION FRAMEWORK FOR THE EXTREME ENERGY EVENTS EXPERIMENT

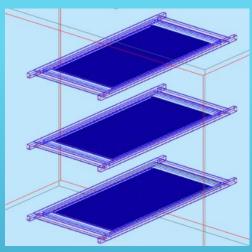
Stefano Grazzi on behalf of the EEE Collaboration

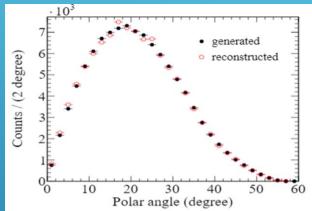


### SIMULATION FRAMEWORK

- Geant4-Based Simulation Framework
  - Better understand and predict the behavior of EEE Telescope detecting cosmic muons
  - MRPC Telescope geometry and Surrounding Materials are implemented
  - MRPC response was parametrized based upon the measured performance of the chambers
- Simulation framework validation
  - Comparison b/w data and simulation
  - Good agreement of angular distributions and other reconstructed quantities







## SIMULATION FRAMEWORK

#### Conclusion

- EEE simulation framework is a valuable tool to study the detector performance
- Investigate new opportunities
  - Cosmic muons for building tomography & stabilities

GENO-0 llocation

studi

qule

spazio student

First step towards a full simulation framework

#### Future

Integrate CORSIKA event generator for simulation of air shower

