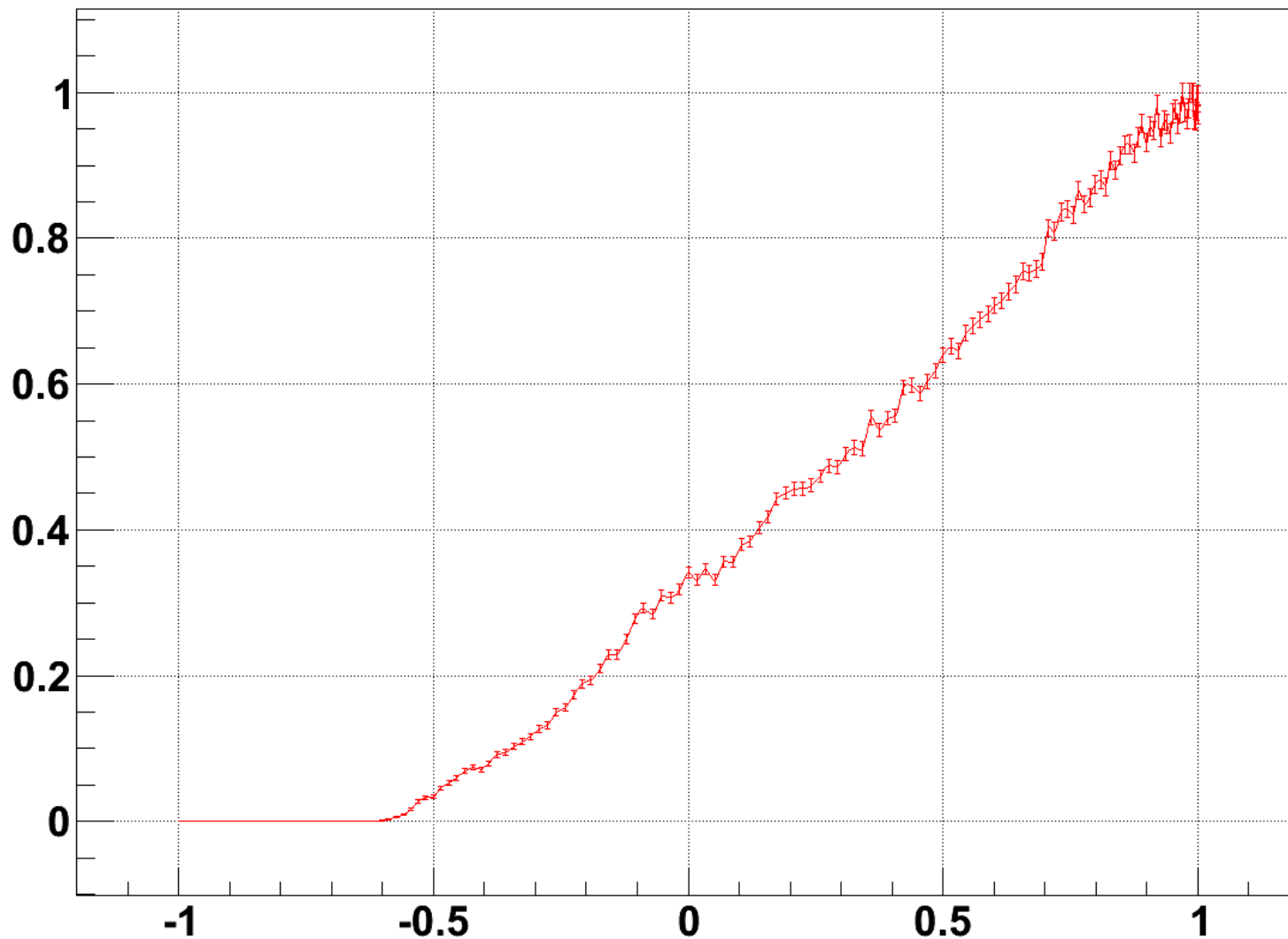


Angular acceptance

# Old source

Angular acceptance

$E=2.8$  eV, mono



# Update on OM GEANT4 simulation

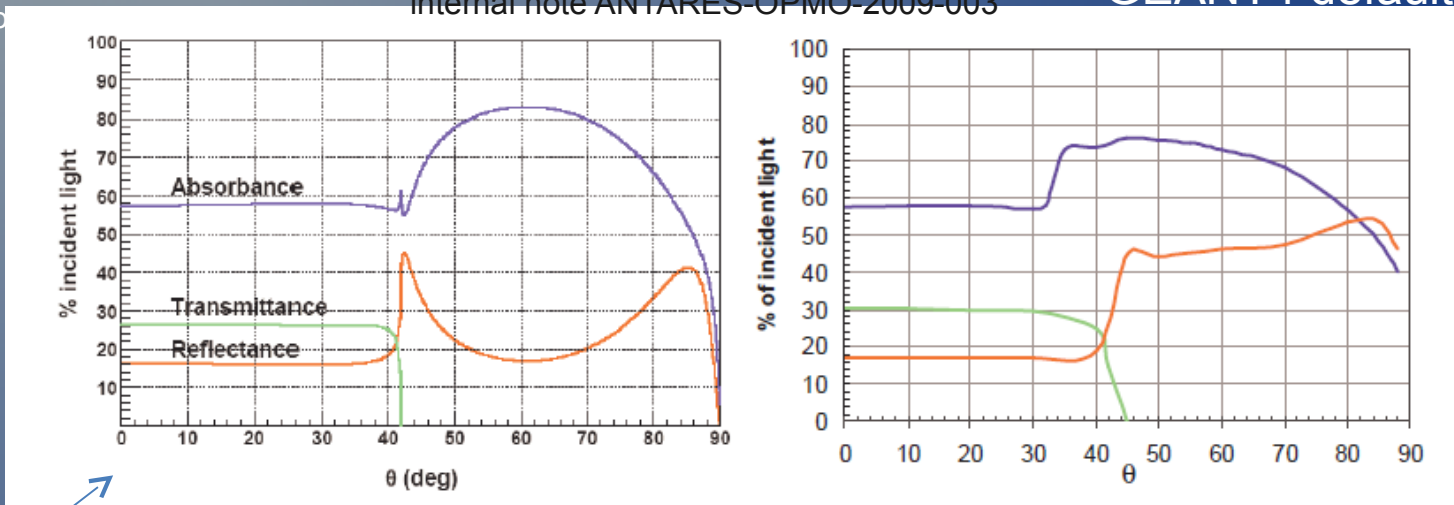
- Thin layer optical model: D. Motta, S. Schönert, NIMA 539 (2005) 217

## Thin layer Optical Model

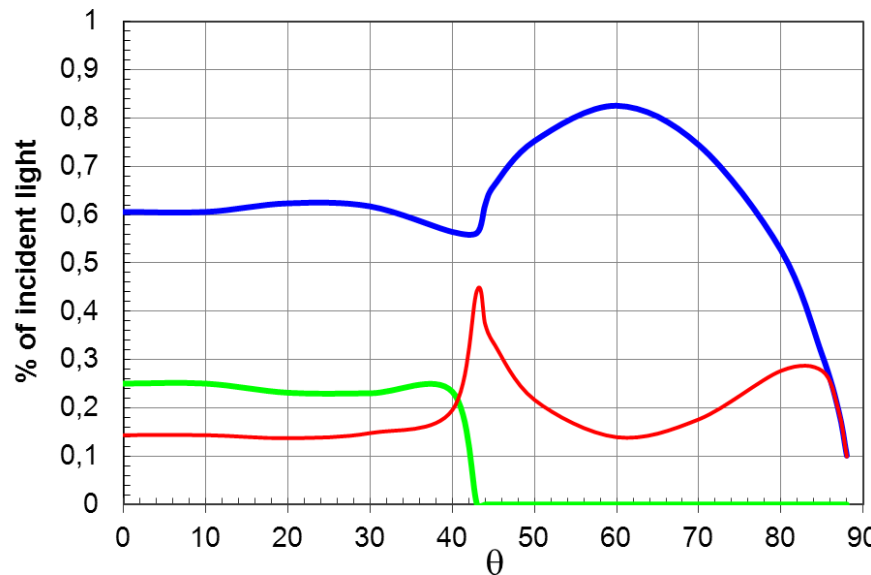
From Motta et al.

internal note ANTARES-OPMO-2009-003

## GEANT4 default

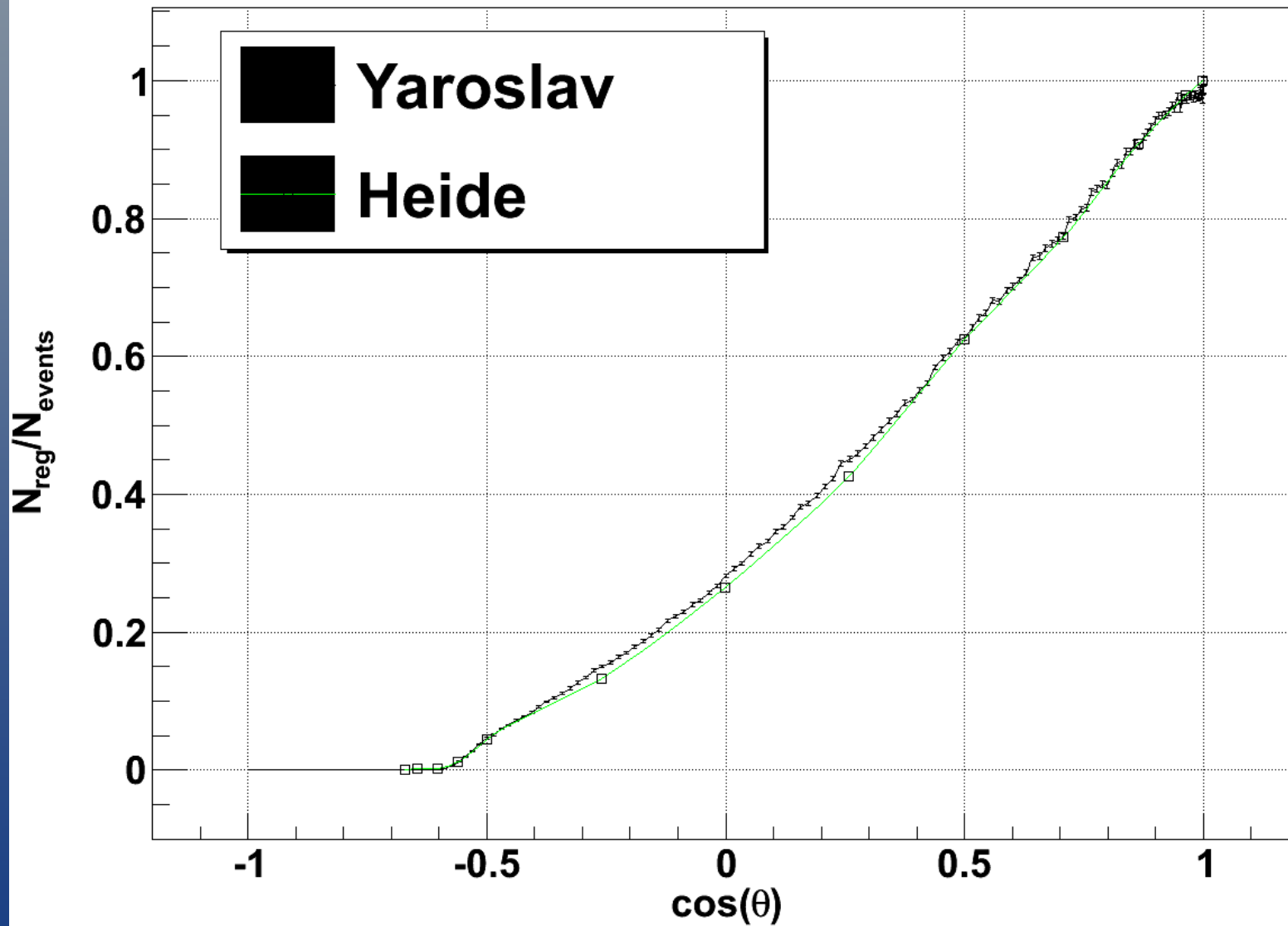


Good agreement

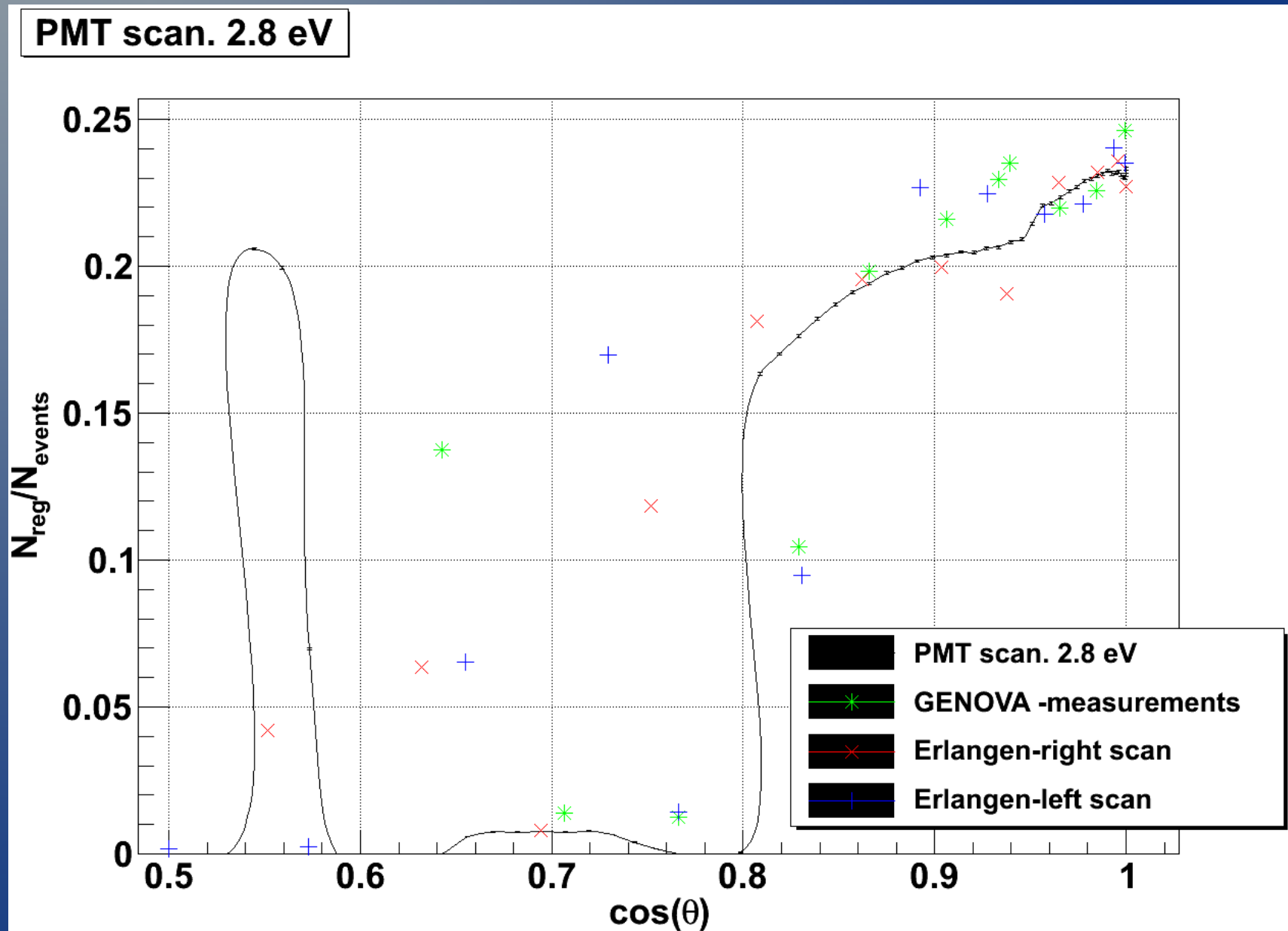


Thin layer Optical Model implemented in GEANT4

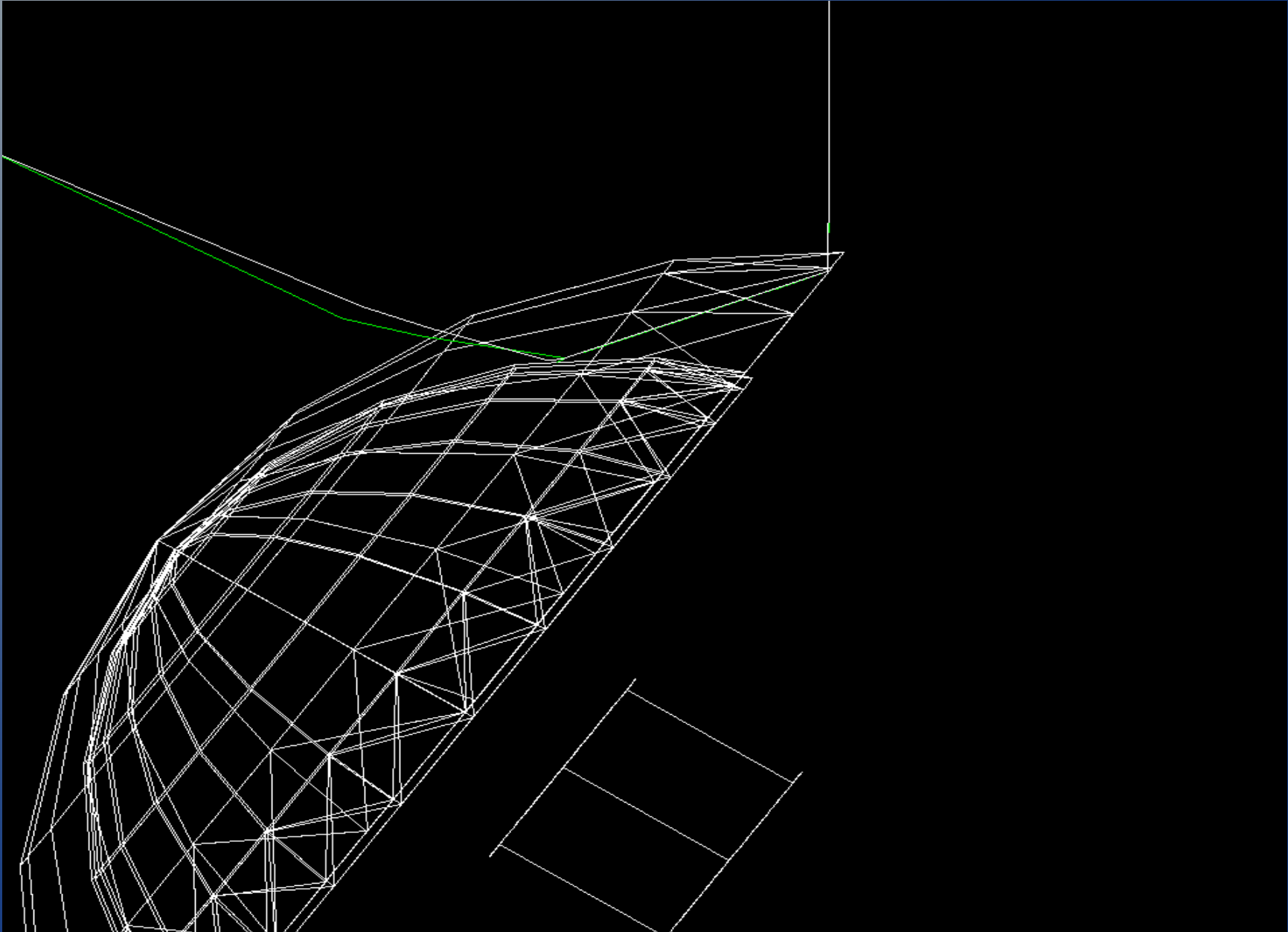
# Comparison



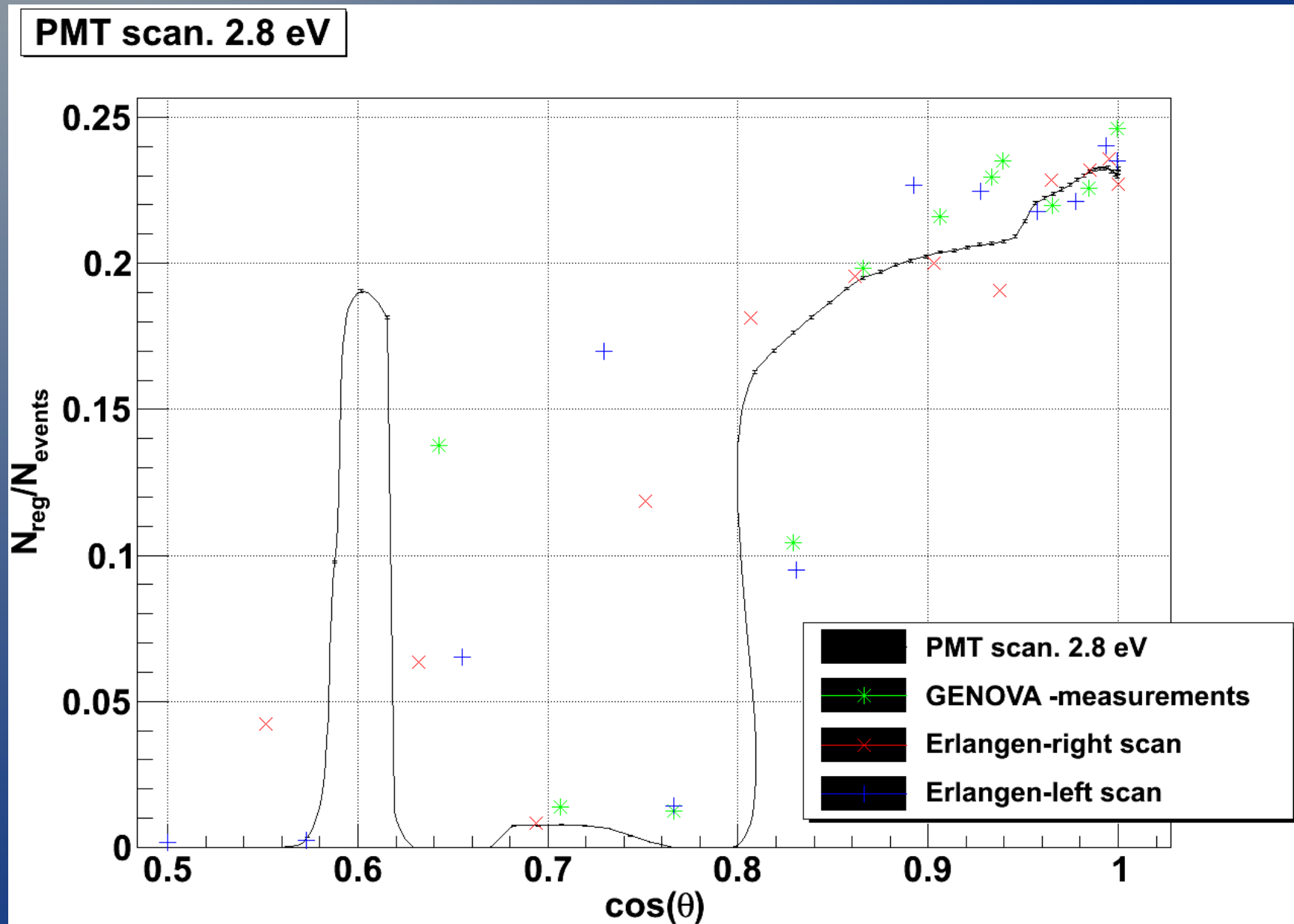
# PMT Scan. Level of gel = 10.85 cm



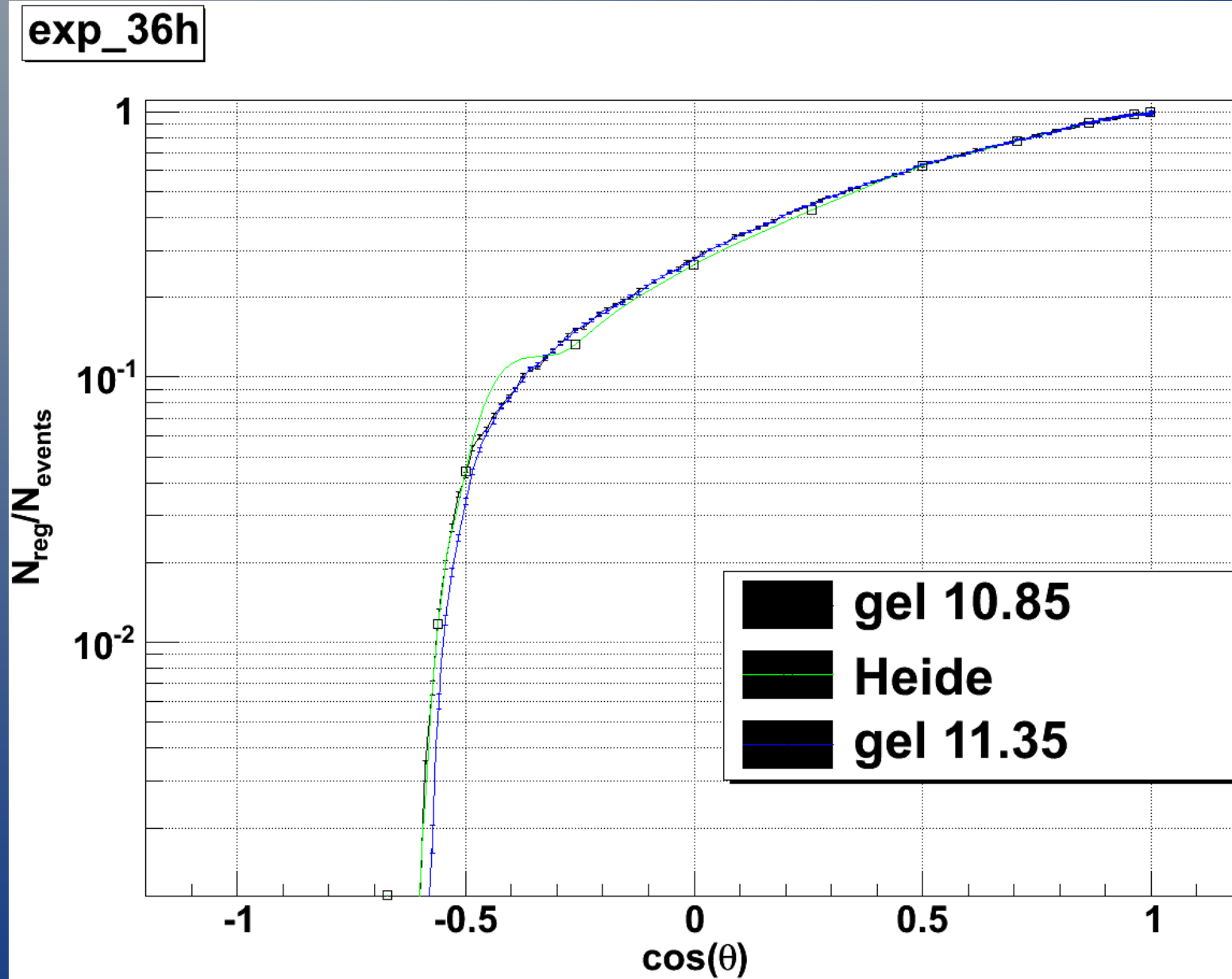
# Full reflection



# PMT Scan. Level of gel = 11.35 cm



# Angular acceptance





# ToDo List

- Error calculation
- Final acceptance release
  
- eta\_E calculation
- K40 rate