

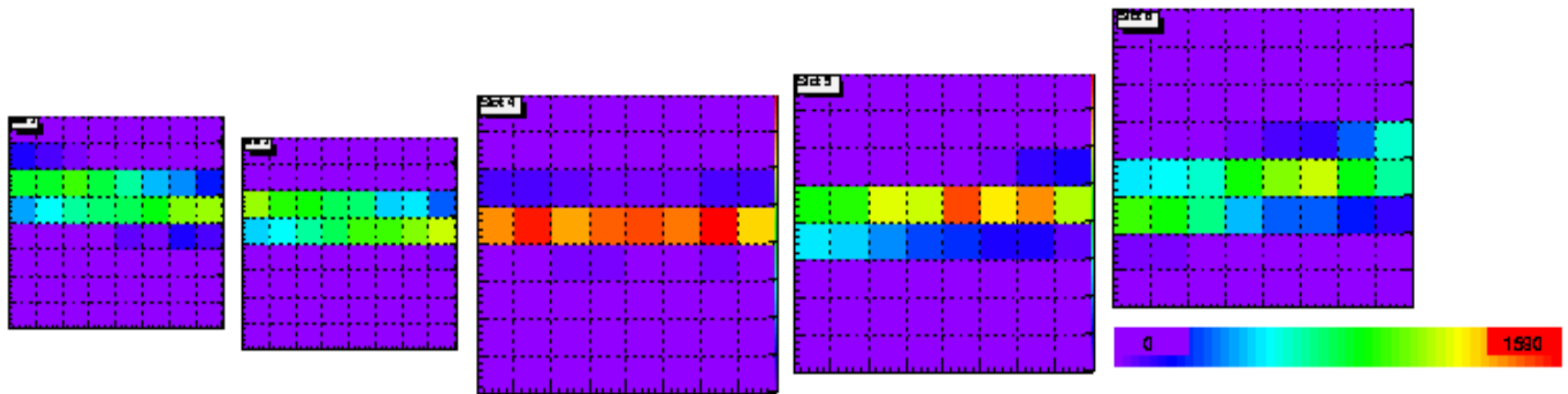
# Status of the program

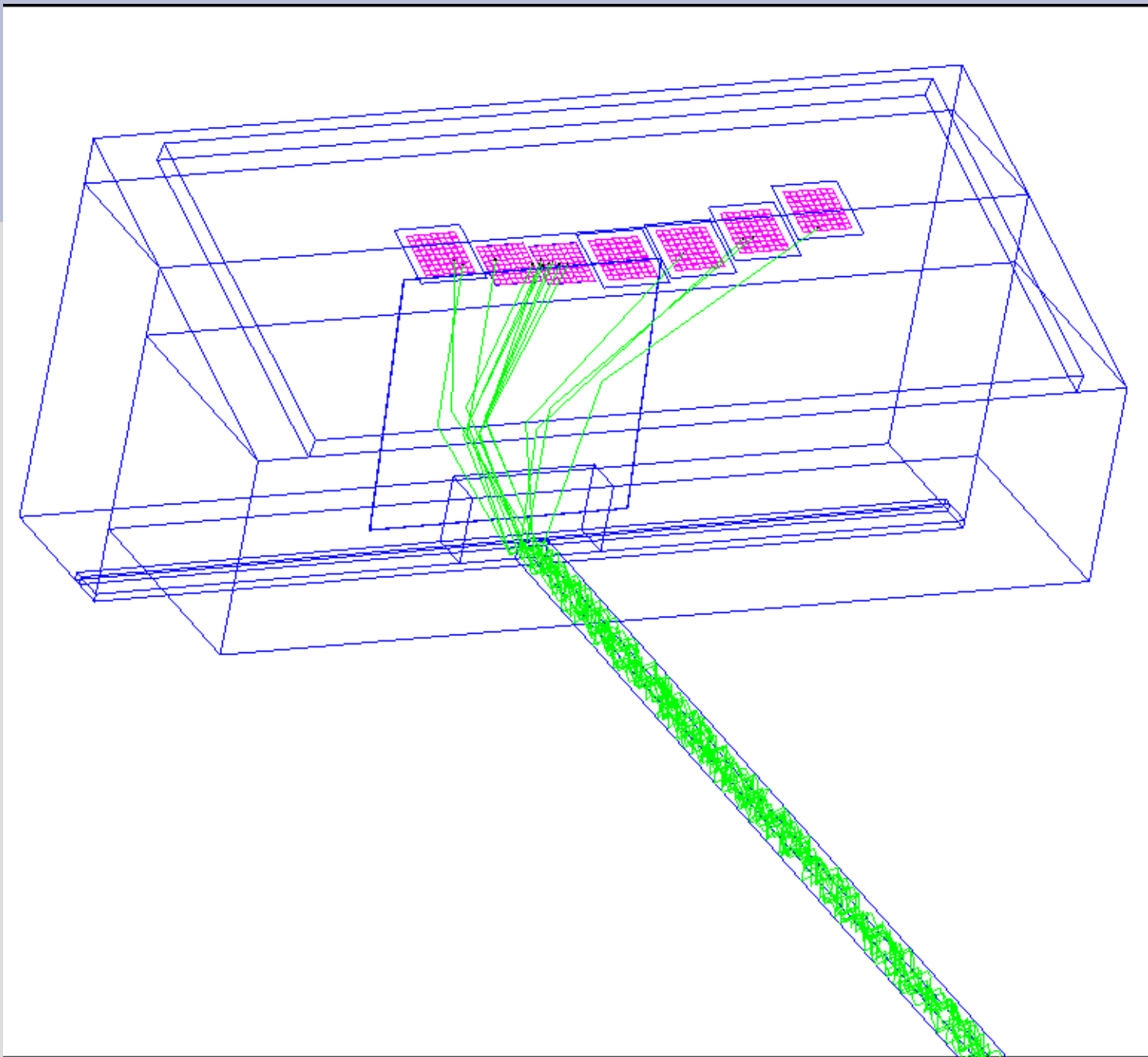
- Geometry : all important parts added
- Phase refractive indices of KamLand oil, Epotek, Quartz material
- mirror reflectivity
- quantum efficiency of Hamamatsu and Burle PMT's
- transmission of photons in Epotek, KamLand oil, and Quartz material
- internal reflection coefficient for one bounce

# Outputs

- Number and position of hits per electron
- original direction cosines and cherenkov angle,
- wavelength of registered photons,
- path length in bars and KamLand oil,
- time of flight in bars and KamLand oil,
- cherenkov ring.

# Visualization





# Root analysis

**Graph**

