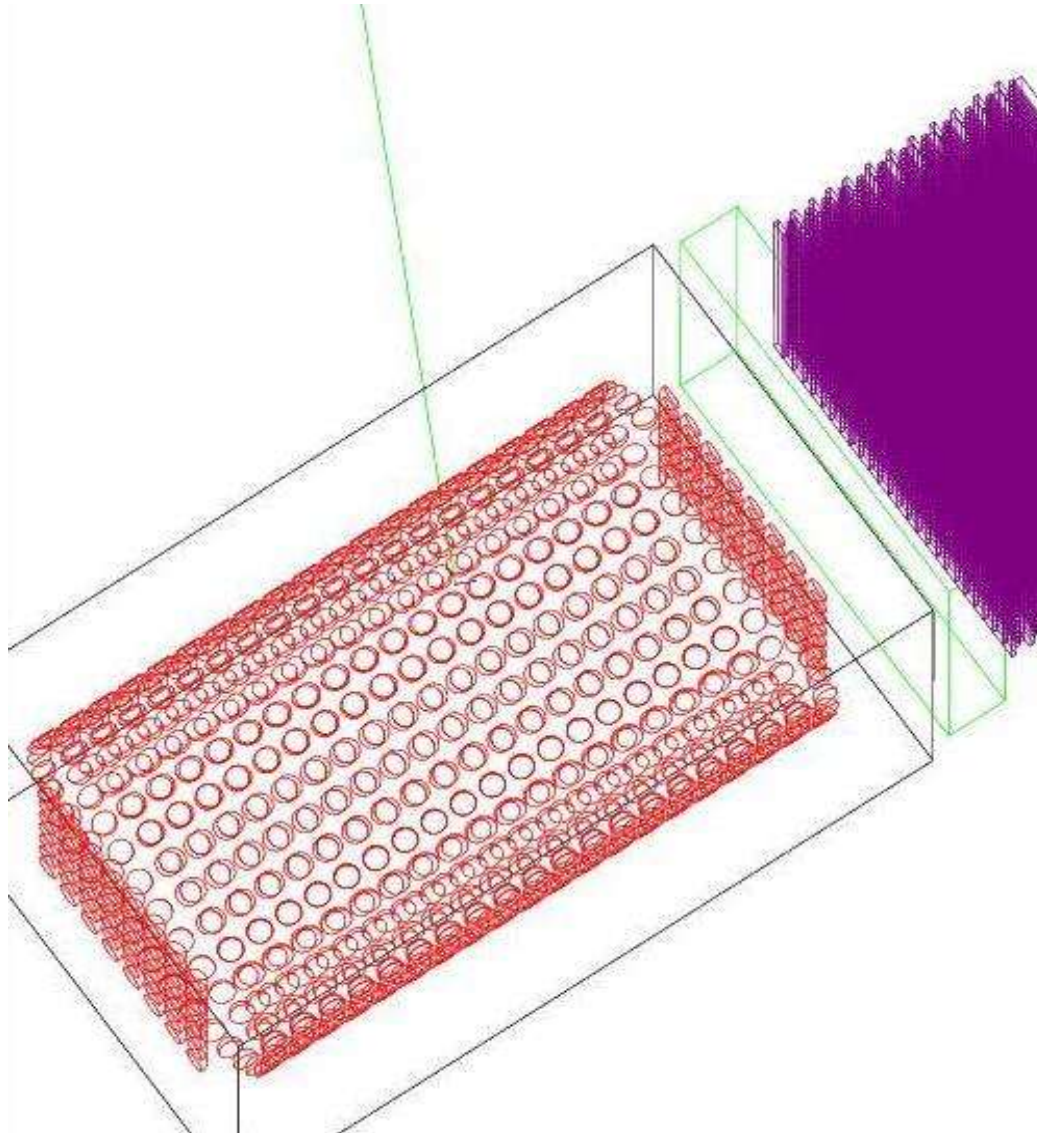


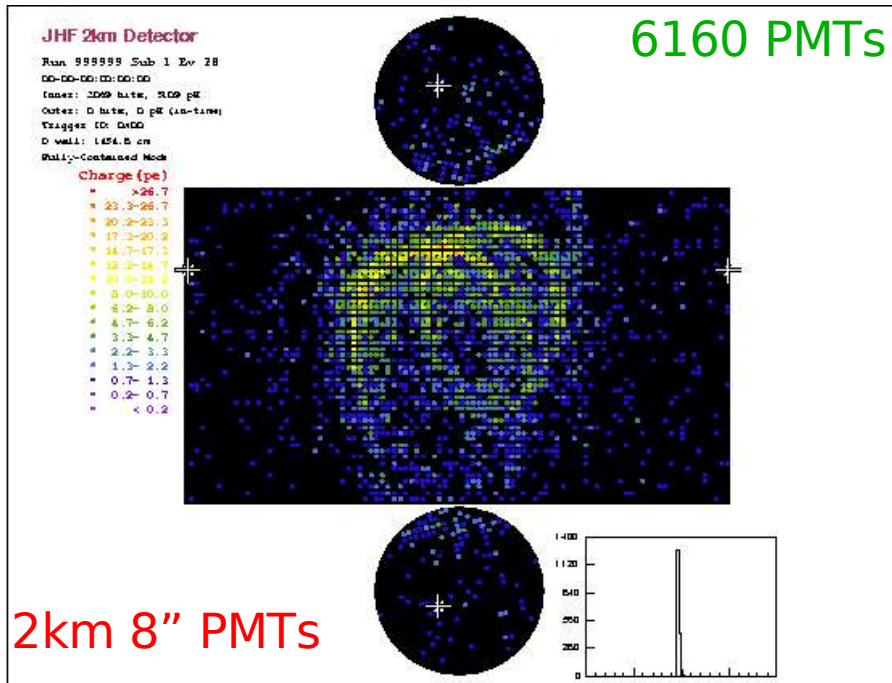
Status of the 2km GEANT 4 Simulation



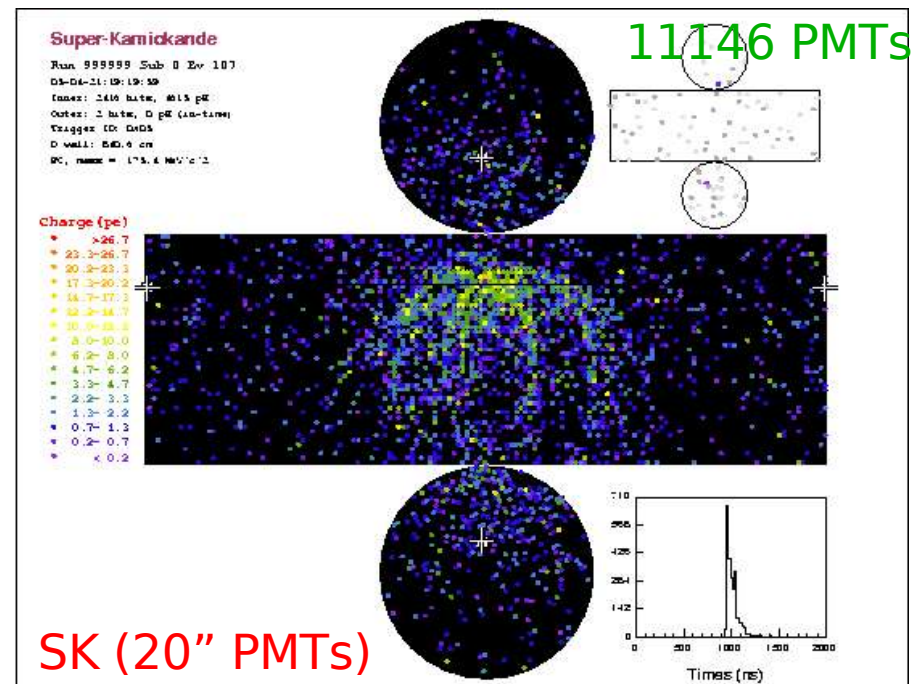
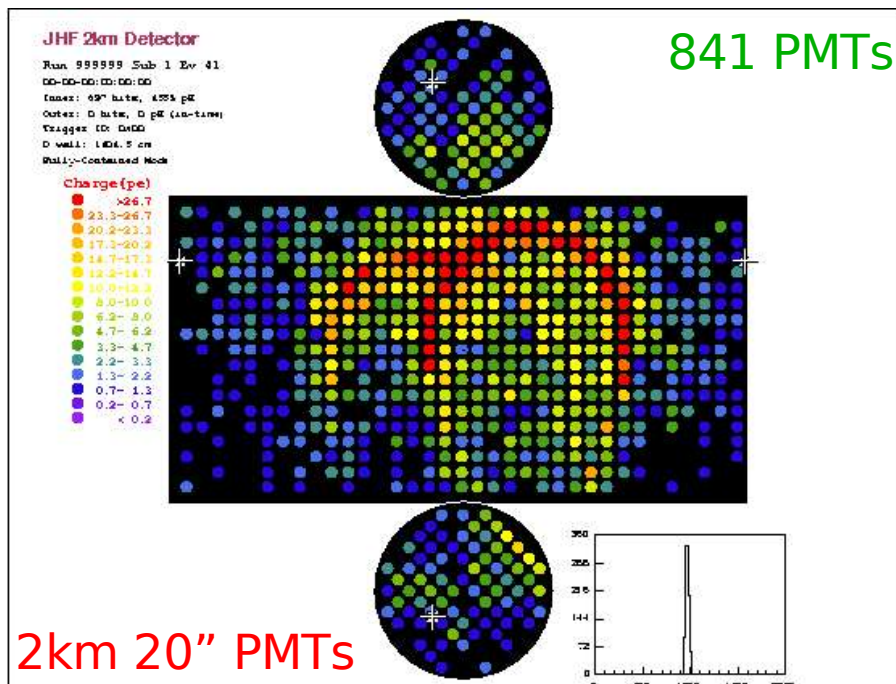
Chris Walter
Duke University
05/11/04

Since the 4/04 meeting

- Mostly have been working on tuning the simulation.
 - New absorption length and reflection parameters [Steven, Michael]
 - New Digitizers [Chris]
 - Modification of tools
 - Superscan can read 2km files [Kate]
 - Work on Polfit [Maxim, Mine] (used to validate)



Superscan output of 8" 20" and SK Pi0 (from Kate).
 (Try to match performance of SK and 2km - one example: PMT Size)



Short term plan + Schedule:

- Now the simulation is close.
 - There are still some differences in the light pattern between fwdetsim and 2km. But fwdetsim does not agree perfectly with data. We need to decide what is good enough and then finish. More details from Maxim.
- Start using the simulation for physics studies and reproducing the plots etc from the LOI.