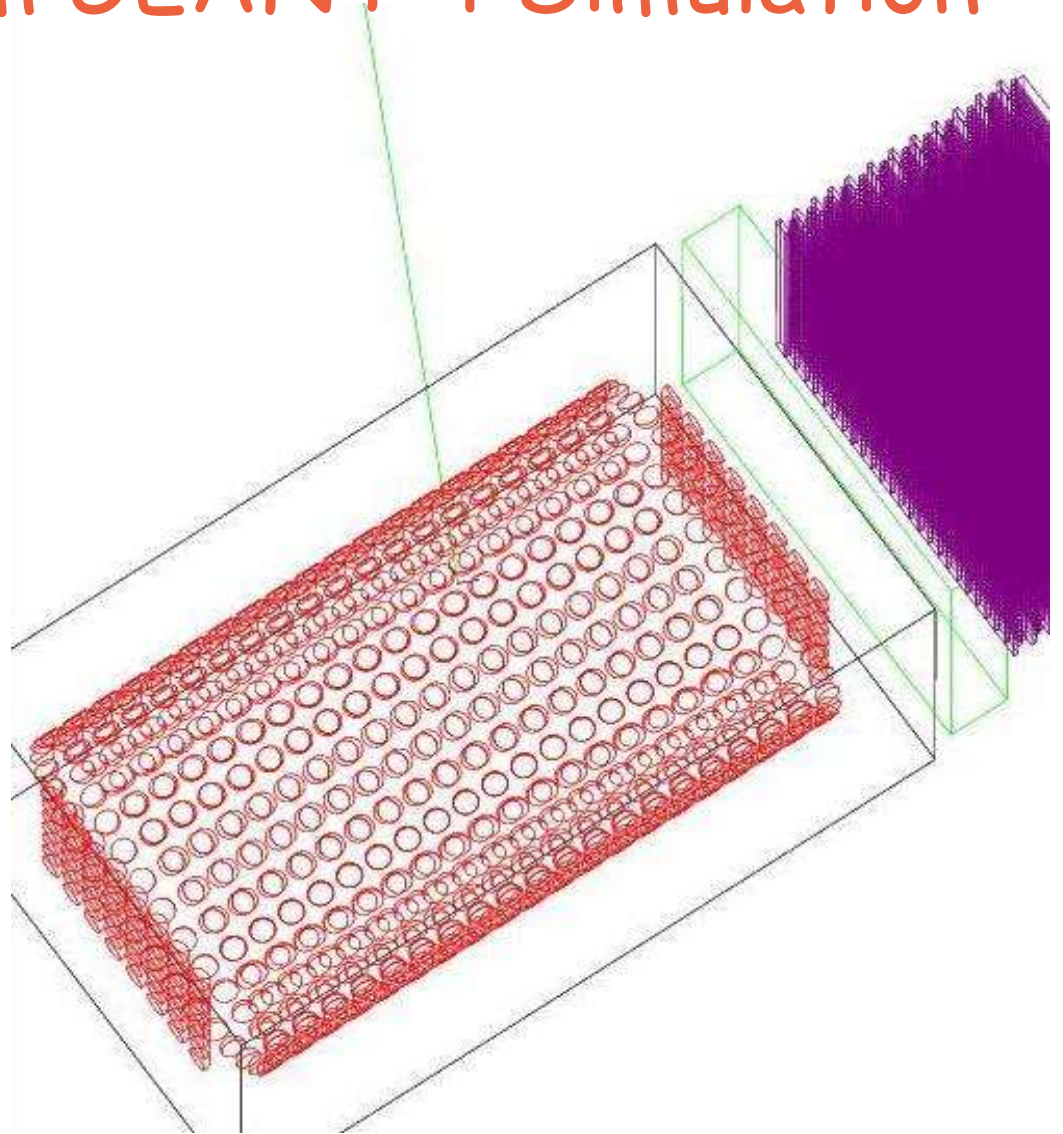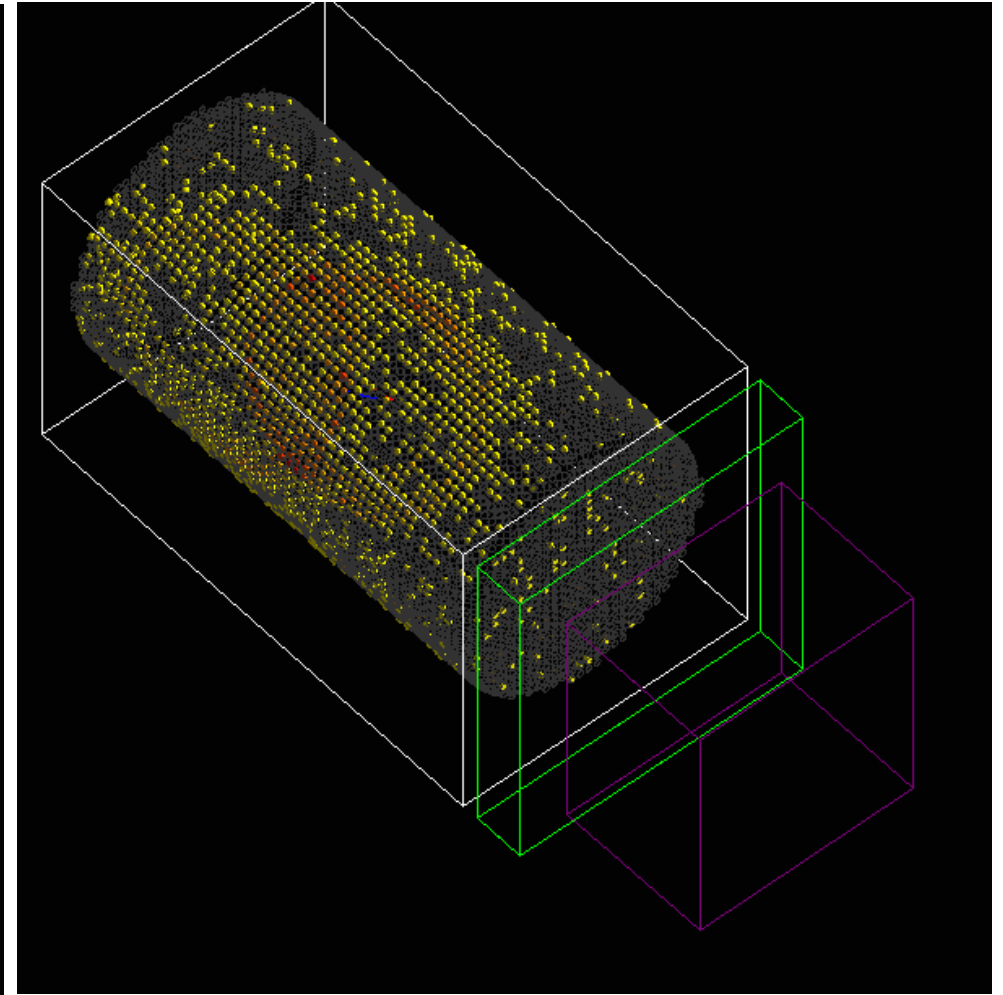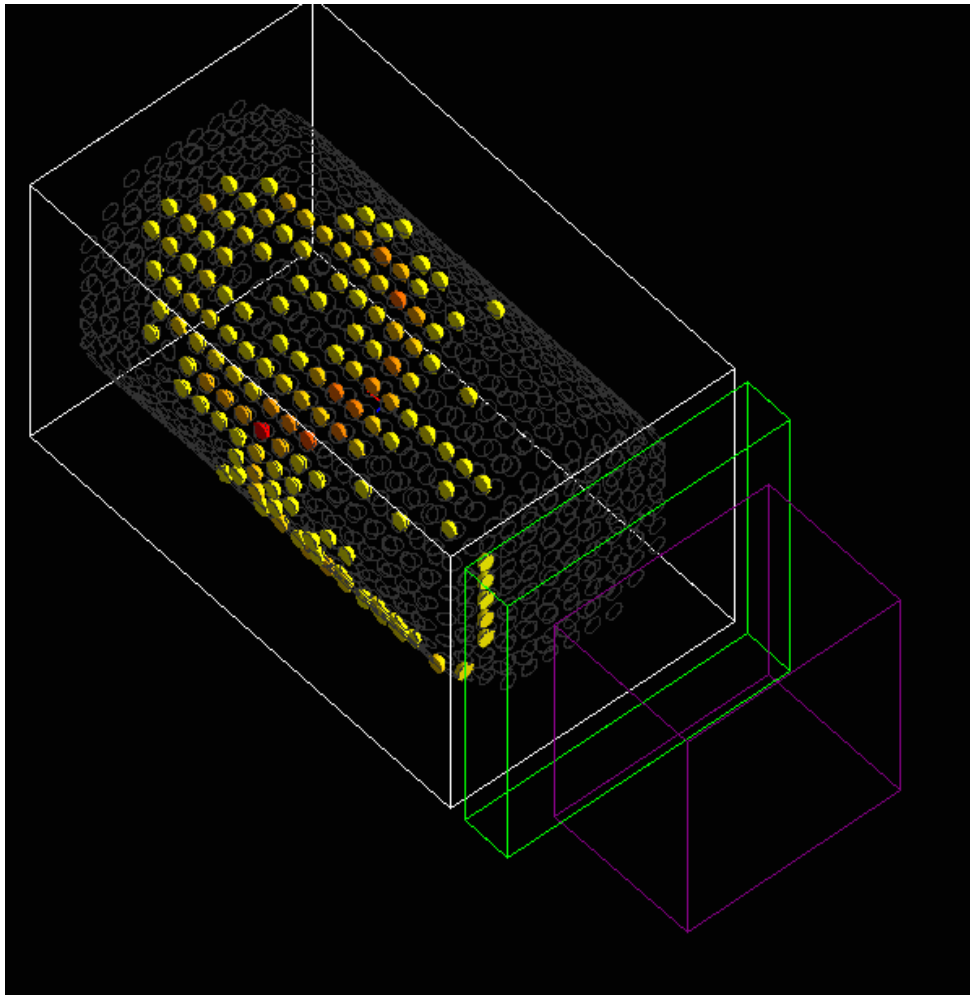# Status of the 2km GEANT 4 Simulation

- Status

- Plans/Schedule

Chris Walter
Duke University
03/31/04

At the beginning of the month
PiO with 8" and 20" PMT

We were able to simulate 8" & 20"

Since the 3/01 meeting

- We finished and debugged the 1kton geometry option.

- We finished converting the root output of the geant4 code to ZBS.

- We modified kt libraries to use geant4 WC tube numbers.

- We started processing geant4 output with the kton reconstruction tools and the standalone polfit.

- You will hear details from[Ed / Steven / Kate / Maxim]

Short term plan + Schedule:

- You will see there are some discrepancies between the the 1kton and geant4 simulation light patterns. We must <u>fix these first.</u>

- Then we should see the <u>same results of the kton reconstruction</u>

- Then we can say the <u>simulation has been "validated"</u>.

- Then we can <u>compare polfit for 8", 20"</u> etc.

- We should try to show e/pi0 separation using polfit for 8"/20"/SK to show the resolution similarity with SK before April 15th if possible.