Production 2 WLS QC

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Rochester Meeting
Oct 17 2008
WLS QC, Attenuation Length

- Measured attenuation of fibers
- Dan has QCed Production 2 fiber
- Production 2 looks OK
- Looks like Prod 2 has a longer attenuation length than Prod 1
Light at x=0

- Light Extrapolated to x=0
  - Prod 2 fibers are normalized to 1
  - Shows the amount of light accepted into the fiber
- No attempt to correct overall normalization between different sets of measurements
  - PMT, HV, scintillator & source are the same
- Looks like Prod 1 accepts more light than Prod 2
Light At $x=320$

WLS Fiber, Light Extrapolated to $x=320$, Ave to 1

- Note that at $x=320$ Prod 1 & Prod 2 fibers seem to have the same amount light. These measurements claim the longer attenuation length of production 2 is being cancel by its accepting less light.
We saw this funny behavior of light vs batch number for Production 1 fibers.
13 Batches, do not see jump we saw before
Dan measured some fibers from the other batches at the same time
14 R&D 1
15 R&D 2
16 TRK 1
17 TKK 2, but the fibers were left out in fluorescent lights in the tunnel for about 6½ months. Looks like the light damaged the fibers
Want to study more but I need to be sure I understand exactly what the data is for the files