

1) Recent Milestones

a. Scintillator

- I. Extrusion Die for 1.0 cm x 6.9 cm cross-section completed (FNAL)
- II. 200 meters produced and delivered to CMU (late Dec.)
- III. Sample coupled to St. Gobain Wavelength Shifters

Photon output and attenuation lengths meet expectations!

b. Mechanical Prototype

- I. 1<sup>st</sup> Prototype completed  
(can, ribs, 160 iron absorbers...1/8 in walls,  
80 acrylic dummy scintillators and dummy WLS)
- II. Assembly tests (experience with Aluminized Mylar, etc.)
- III. Mechanical Stress tests  
Less than 0.2 mm bend. (negligible)

2) Ongoing

- a. Chopping FNAL scintillator into 80 pieces
- b. Will machine existing St. Gobain WLS to match new design
- c. Pieces for light-guide already cut. (Need to be bent)
- d. Will load prototype HCAL-J with real scintillator in a few weeks.

3) Near Future

- a. FNAL about to start producing 3.6 km of scintillator
- b. WLS to be delivered in ~ 3 months (INFN order)
- c. Injection-molded waveguide components ordered (INFN)