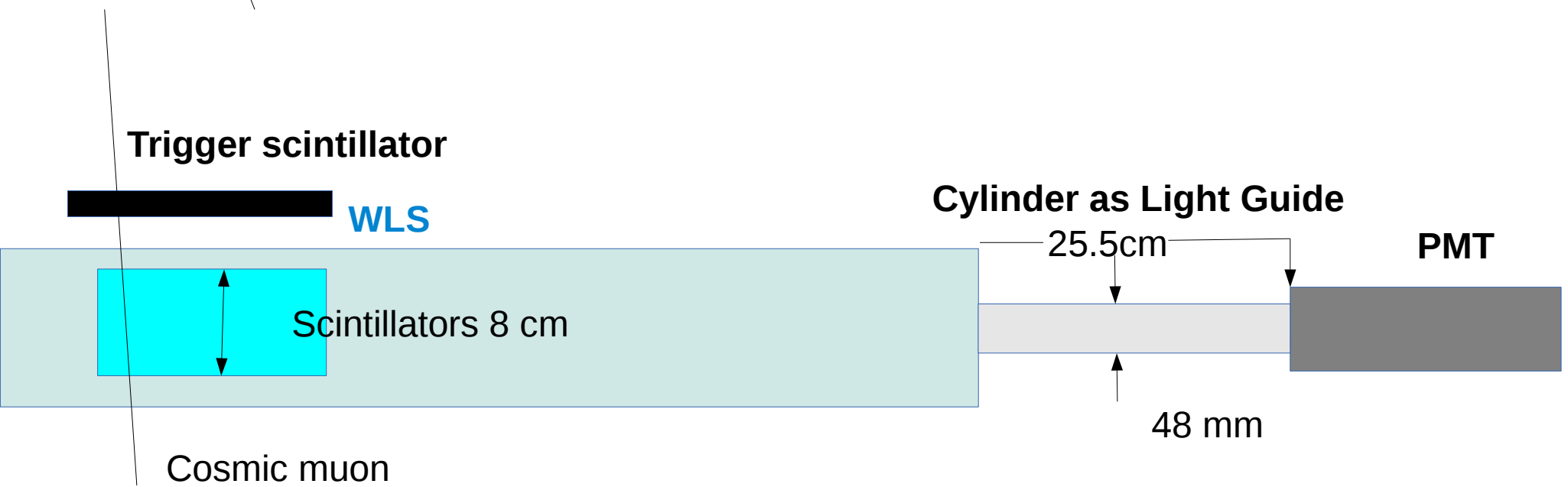
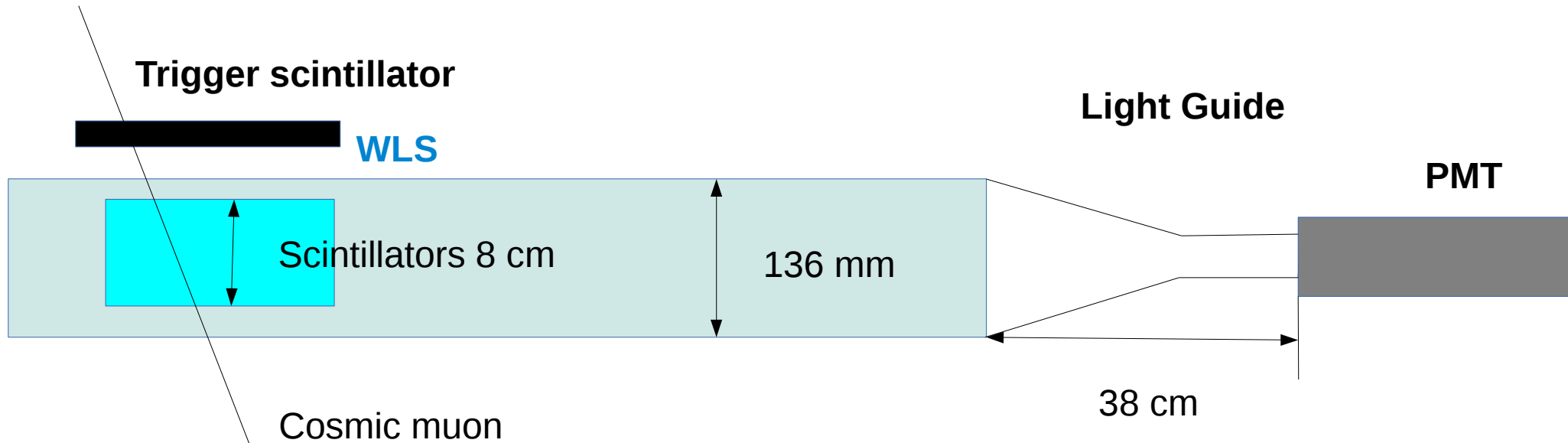


**SBS Meeting**  
**HCal-J light guide efficiency**

Vahe Mamyán

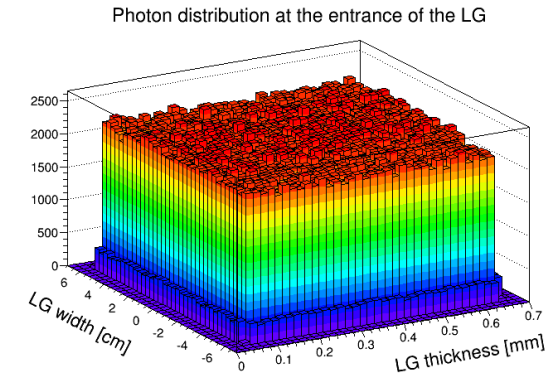
Jan 7 2015

# Test Setup



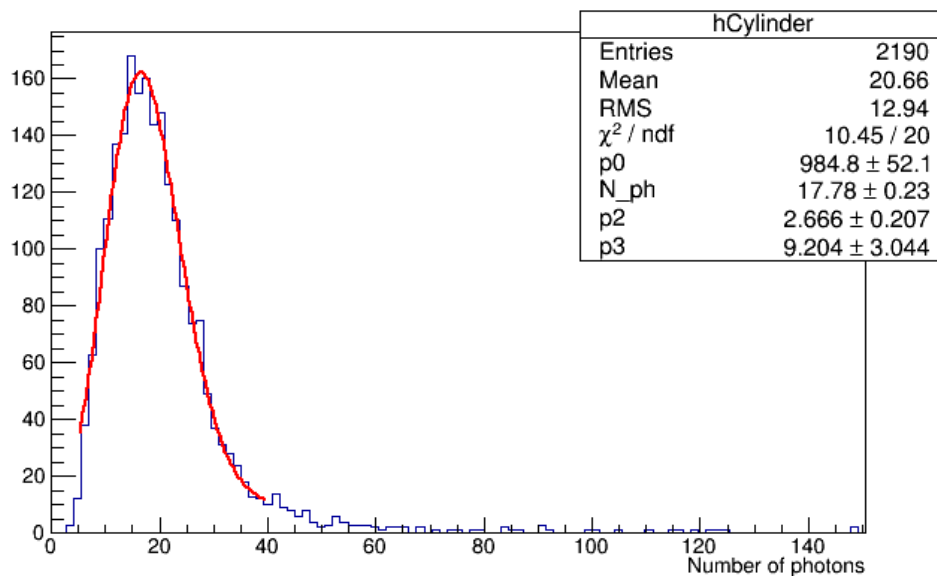
# Light Guide Efficiency

- 8 1 cm thick scintillators increase light yield and provide homogeneous light distribution at the entrance of the light guide.
- Uniformity of light distribution at the entrance of the light guide is confirmed with tests and simulation.



**Light guide efficiency compared to cylindrical light guide is  $93.3 \pm 1.5\%$ .**

Number of photons with the cylindrical as light guide



Number of photons with the light guide

