GLD-CAL Review and Tasks

T. Takeshita @Snowmass-GLD

Recent Achievments Review ECAL/scintillator/Photon sensor Missings Tasks to do

GLD-ECAL Strip results a typical event





Integrated lateral shower profile





GLD-CAL scintillator



GLD-CAL scintillator cont'd



Evolution







GLD-photon sensor results





GLD-HCAL simulation results



GLD-CALcollaborators

 Kyongpook (D.Kim) : scintillator ✓ JINR (P.Evtoukhovitch): SiPM ✓ Kobe (K.Kawagoe) : MPC ∼ Niigata (H.Miyata) : MPC pixel ~ Tsukuba (S.H.Kim,H.Matsunaga) : sim. ~ KEK (A.Miyamoto, K.Fujii) : sim. Shinshu (T.Takeshita) : BT

GLD-CAL missings

- scintillator dimensions (width,length,thickness) > cost estimation
 MPC R/O electronics > M.Tanaka
- ~ Options
 - ✓ Silicon in ECAL
 - ∼ digital/SemiDigi. R/O for HCAL

GLD-CAL to do

- ~ PFA
 - ✓ optimize segmentation
 - \sim look into others idea Scinti. 2mm W 3mm

o 1 cm

33layers

MPC R/O

- ~ electronics
- ✓ MPC
- → BT preparation
 - dimensions, cost

GLD-CAL tasks @Snowmass

~ PFA : Yoshioka,Jeri, Fujikawa: clarify differences electronics : Matsunaga control Bias Voltage ∼ BT preparation:Kim,Takeshita ∼ get beam time in 2007 cost estimation and dimensions