EUDET goal for ECAL

Build and set in beam a significant portion of an actual ECAL module

mechanical structure abour ½ module
 full length ~ 150 cm
 full thickness 30 layers
 half width 3 alveoli, enough for structural studies
to be made of W wrapped in C fibers
except if we decide to go for Pb
study in 2006
production 2007-2008
testing in beam 2009
estimated price 235 kE

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Sensitive part
equip a full slab: 12x4 4 » wafers
with Si wafers and chips pad size?
1x1 or .5x.5 or .3x.3
a full tower : 4x30 wafers
or better more with more money, other contributors
about 50-60 kE
chips with digital part integrated (and pulsing)
related to pad size.
money see Christophe
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Very important pieces to be studied: Heat production and evacuation Pad size Material W/Pb Interface to HCAL Tests in beam, thorough evaluation of Geant4 hadronic part Post-doc for 2.5 years

Summary for money a bit tight but really possible some possibilities to spare on the slabs structure EUDET LLR 79 kE + part overhead ~ 100 150 kE from IN2P3 = 250 compared to 295

Time scale adequate.