

DHCAL Testbeam Plans for 2011



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October 2010 at FNAL – 4 weeks

Configuration: DHCAL with 38 layers + scintillator TCMT

a) Broadband muons into every cell

~ 100 tracks/pad

b) Secondary beam

Pions and positrons identified with Cerenkov

1,2,4,8,12,16,20,24,28,32,40,48,60 GeV/c

c) Rotated calorimeter: broadband muons into center

d) Secondary beam with rotated calorimeter

Selection of momenta

January/February 2011 at FNAL – 4 weeks

Configuration: Si-W ECAL + DHCAL with 38 layers + RPC TCMT

a) Broadband muons onto center of ECAL

~ 100 tracks/pad

b) Secondary beam

1,2,4,8,12,16,20,24,28,32,40,48,60 GeV/c

[c) Rotated calorimeter: broadband muons into center

d) Secondary beam with rotated calorimeter

Selection of momenta]

~April 2011 at FNAL – 4 weeks

Configuration: DHCAL with 38 layers + RPC TCMT

a) Broadband muons into center of calorimeter

~ 100 tracks/pad

b) Secondary beam

Pions and positrons identified with Cerenkov

1,2,4,8,12,16,20,24,28,32,40,48,60 GeV/c

c) Rotated calorimeter: broadband muons into center

d) Secondary beam with rotated calorimeter

Selection of momenta

Beyond Spring 2011

Need for TCMT at CERN (OK with us)

Initiated discussions with W-HCAL for measurements with RPCs in 2012/3
(probably easier to move Tungsten than RPCs)

Possibility for test beams at FNAL in 2012
(depends on continued running of the Tevatron)