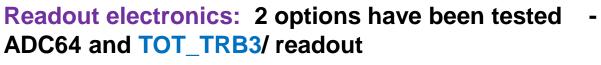
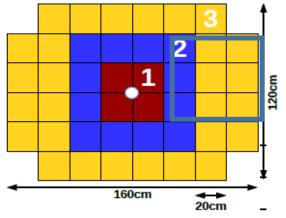
PSD CBM supermodule test on T10 (RE 21) 11 -18 April 2018 PSD sup

PSD CBM - lead/scint. forward hadron calorimeter: 44 modules with transverse size 200x200mm² and longitudinal segmentation (10 sections in each module)

Light readout:

Hamamatsu S12572-010P,Sensitive area $3 \times 3 \text{ mm}^2$ nominal gain 1×10^5 ,Pixel recovery time - 10 ns



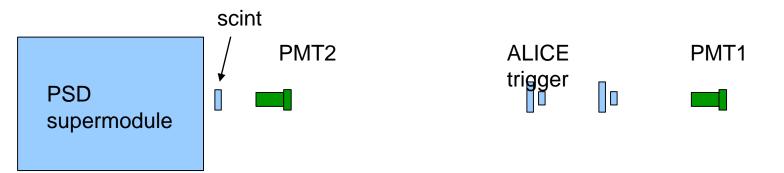


PSD supermodule

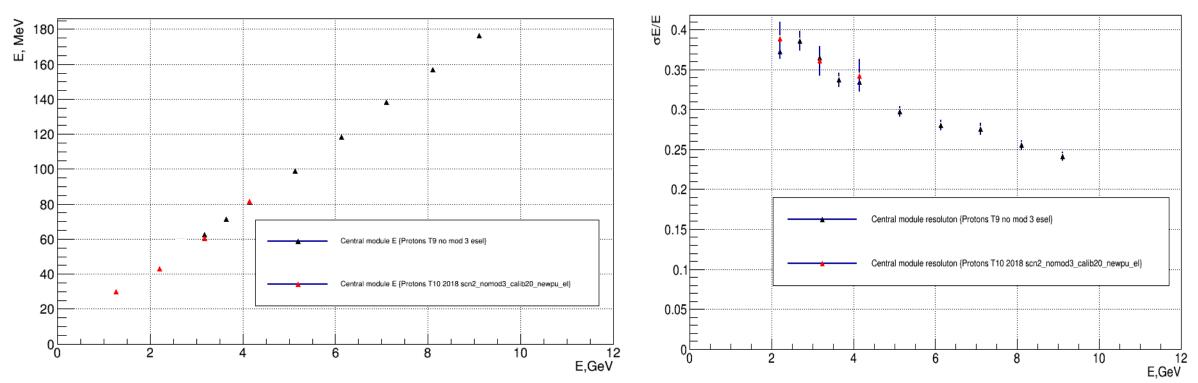


T10 beam test tasks:

Calibration on muon beam and energy scan (2 – 5 GeV/c protons) with ADC64 readout V Module response study with TOT_TRB3 readout V Module response study with irradiated MPPCs V



Preliminary results of central module linearity and energy resolution



!8 April – PSD supermodule and red support platform have been moved from T10 at bld. 887 to test in the beginning of May at proton energy range 15 -150 GeV/c on NA61.





Outcome

All planned measurements were successfully performed.

18 April - PSD supermodule is prepared to installation at NA61 during next MD_25 April.

Many thanks to Lau, Michael, East and North area Staff for help in tests preparation and support!