

TPC and AT: Time Projection Chambers and Active Targets

The following subjects were presented:

Introductory remarks: Wolfgang Mittig(MSU)

Recent results with MUSIC: Calem Hoffman (ANL)

protoAT_TPC: Yassid Ayyad (MSU)

AT-TPC: Daniel Bazin (MSU)

ANASEN: Ingo Wiedenhoever (FSU)

SPIRIT: first results William Lynch (MSU)

SPIRIT: track analysis Giordano Cerizza

TexAT: Gregory Rogachev(TAMU)

proton decay detector: Chris Wrede (MSU)

Developments-recommendations

There was no time to discuss in the necessary detail the “first day experiments”, and should be part of the next LECM meeting. It was recommended to include ^{208}Pb in the list of the first beams.

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The discussion was mainly oriented to establish an efficient collaboration in this growing community, and in particular:

- *Establish a shared address-book* starting with the persons present to exchange information
- *Share hardware* when possible (example: the 4T solenoid from ANL)
- *Share specific technical information* (example: gas detector properties of target gases)
- *Analysis of Data*, a hardware and work-intensive subject: share methods and software; computer power needed is high, and hardware may be shared (example: Texat computer); a coordinated framework (with a responsible person) should be established; a high speed network should be provided to allow for analysis at several institutions
- *TPC's are a forerunner* in the need of high data rate experiments; they imply high computer power and high storage need; they will drive the general trend for the high rate experiments at FRIB
- *Higher level trigger* development is recommended corresponding to needs of these detectors, and quite certainly at FRIB