

UMass people working on pion polarizability project

Undergraduates:

Matthew Downing – new

Christian Haughwout – MWPC electronics design

Sean McGrath - MWPC mechanical design

Andrew Schick – clean room construction, trigger scintillators

Graduate student:

Mike Roberts – new student starting this spring

Postdoc:

DOE is funding postdoc to work on this project starting calendar year 2016

Projects for this spring/summer

- Test small prototype detector:
 - i. Drift time studies with cosmic rays using Sean's code and scintillator
 - ii. Gas gain studies with ^{55}Fe using AMPTEK ADC
 - iii. Select chamber gas and HV operation point for fast charge collection time and 10^5 gain
 - iv. Test electronics design, select trans-impedance gain
 - v. Test wire deadening methods in central region of MWPC
- Finish metal framed clean room
- Assemble large prototype detector
- Do the electronics procurement