ECAL PMT Base Fabrication
a Status Report

Jorge Pena, Adam Golfman
Ioana Niculescu, Gabriel Niculescu
James Madison University

❖ Reminder…
❖ Current Status
❖ Outlook
Reminder…

Turn this

Into an actual base (similar to this)

So we need to design/fabricate/wire/test bases
Reminder...

Added problem:
Only have “thin” sockets
Difficulty mechanically attaching the board to the socket

Solution:
Design & fabricate a plastic collar that fits over and extends the brown socket

2/6/2019
Current Status (I)

- Base design (Jorge) complete (we think)
- Will run it next week by the Jlab electronics group
Current Status (II)

- **Base layout**
  - complete w/ ground planes, stress relieving features

- **Checked w/ M. Jones to ensure that some $$ are available for fabrication (there are)**

- **Started looking at electronic house to get quotes for building this.**
Current Status (III)

- Good progress on the collar making front (Adam)
- Three increasingly more successful attempts at molding the collar
Current Status (IV)

OK

Better
Current Status (V)

Next steps:

Collar with the “wings” of the electronic board embedded

Multi-mold (i.e. 8 collars at a time – need to get to 750...)

2/6/2019
Pending a blessing from the JLab electronics group the board should be ready for fabrication. Collar making technique improving, almost ready as well.

Next big task:
Massive de-soldering effort to recover as many “thin” sockets as we possibly can.