

Undergraduate Research Award Interim Report

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The counter board has been redesigned and tested. It features two counters: one for an instantaneous display of the count in the current interval and one to display the counts in the last interval. This enables the data to be recorded more easily.

The scintillating paddles are ready to be cut to the correct size.

All materials have been ordered. We found much cheaper photomultiplier tubes than we expected. This allowed us to order a spare in case something goes wrong with one or one breaks during construction. The savings also allowed us to order power supplies made especially for them instead of building our own. This will save time during the construction phase. Also, they should be more reliable and less likely to damage the tubes than what we were planning.

Construction should be finished before the summer ends. We hope to unveil it at the initial SPS meeting of 2007-2008 in August to spark interest among new SPS members. The rest of the year will be spent taking and analyzing data.

Financial report

3 pm tubes \$205 each

2 power supplies \$225 each

250 mL optical cement \$70 (price from LBNL site for Eljen Tech)

Total spent to date \$1135

Report prepared by Albert Bolander,
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