DRAGON Group Meeting Minutes 4 Oct 06

Present DO(recorder) DH LB CR MT JP GR CV

Previous meeting minutes, not distributed yet

LB internet search found Canberra digitizer capable of 100K/s with no degradation. Will investigate further.

Hardware.

DH ED1 with new ceramics has reached 200KV and held for 2 days. There is noise on the cathode that reduced when voltage lowered by 5 kV. Voltage reduced to 175 kV and left stable. Turbo off, IP on.

DO Gas target elevation was surveyed. The top of the vacuum box was measured to lower by 0.75mm when the target was pumped down from atmosphere. It is proposed to observe the collimators of the gas target either with a theodolite or CCD camera when pumped down. A led will be placed in the gas cell to illuminate.

22Na Report

All attendees had traveled to UW on 3 Oct. so no trip report was needed.

DH proposed a method of scanning the 22Na target for distribution of activity. A 3 piece lead absorber tapering to a 1mm hole is proposed.

Discussion on how to automate the scanning and detection process. MT suggested to use the ISAC emittance measuring system, as it has most of the needed criteria.

DH suggested that the target holding 'cup' be made in 2 pieces to facilitate the scanning process by removing the lips. Worry was expressed about the lack of protection the new design affords, in that the target could 'fall butter side down'.

MT proposed that Jac's box be sent to Seattle to be used for the 23 Na beam. However there should be no compromises in the chamber/cold trap/target holder design be made simply to utilize an existing ISAC vacuum box.

18F Report CR

CR reported on a sensitivity study to do 18F(p,gamma). There are problems

with the competion between p,alpha with p,gamma.
The group gave a favourable decision to have the proposal to go forward to the EEC.
Proposed to demonstrate F beams by using the Si-Carbide target and febiat source
Proposed that CR to collaborate with AL to do report to EEC.

25Mg CV To report next week.

Other business

MT UBC physics dept has open house next week 13 Oct 06. Suggested we We send posters and person to help recruit new students