

DRAGON Group Meeting 25 October 2005

Present DH, DO (rec), MT, Cath D, CP, JC, SJ, ChuckD, PM, DF, LF, AP, JP, LB

^{26}Al (p,gamma) Status CR

Experiment is running smoothly, with greater than 100 recoils collected.

Hardware changes this week included cooling the DSSSD. This solved the leakage current problem but caused a slight change in gain.

For some unknown reason, the leaky beam separation seems better, however, there is no change to the alpha peaks resolution.

Another change occurred Sat night when the preseparator voltage was changed. This caused a favourable improvement in the Aluminum/Sodium ratio. This has produced a lower background that has stayed with us since.

Another change is the laser trigger is defined when an event occurs in the data stream.. This has not been as successful as was hoped the reduce background.

PLANS

Wed morning, tune for ^{25}Al . Iris will need to be opened.

Last week of running then will be off resonance. There was some discussion as to how much running will be needed, depending how much background shows up. It was decided that there probably is not enough time to do a 2nd energy.

^{17}O (p,gamma) Proposal JP

There are 2 recent measurements of omega-gamma that differ by a factor of 3.

This provides incentive to do measurement. Problem is that $1\text{E}11$ particles/sec are needed on the target. This introduces stripper foil challenges (one per hour?)

The proposal will be circulated.