

Some Things of Interest to DRAGON and ISAC

1. Considerable interest in the results of the $^{21}\text{Na}(p, \gamma)^{22}\text{Mg}$ results
2. Some other reactions of interest to DRAGON
 - $^{30}\text{P}(p, \gamma)^{31}\text{S}$; important for nova explosions and ^{26}Al
 - $^{22}\text{Na}(p, \gamma)^{23}\text{Mg}$; important for nova and ^{22}Na destruction
 - $^{45}\text{V}(p, \gamma)$; important for production of ^{44}Ti in SN
 - $^{57}\text{Ni}(p, \gamma)$; important for SN
 - $^{40}\text{Ca}(\alpha, \gamma)^{44}\text{Ti}$; important for production of ^{44}Ti ... needs stable beam (2^+)
 - $^{25}\text{Al}(p, \gamma)^{26}\text{Si}$
 - $^{18}\text{F}(p, \gamma)^{19}\text{Ne}$
3. Report on the key level in ^{19}Ne for $^{15}\text{O}(\alpha, \gamma)^{19}\text{Ne}$ reaction; even weaker resonance and it really looks like no break out in nova. Reaction still of interest for x-ray burst and initial SN reactions. Data ????
4. RIKEN has done inverse of $^{22}\text{Mg}((p, \gamma)^{23}\text{Al}$ using coulomb dissociation.
5. $^8\text{Li}(\alpha, n)^{11}\text{B}$; Riken will try again next year with liquid scintillators.
6. Texas A&M has done direct component of $^{13}\text{N}(p, \gamma)^{14}\text{O}$ using ANC
7. What not to do....Study by Berg, et. al.

AMS

USEFUL NUCLEAR ASTROPHYSICS WEB SITES

- <http://supersci.org> (Stan Woosley stuff)
- <http://earth.annualreviews.org>
- <http://presolar.wustl.edu/news.html>
- <http://physics.open.ac.uk/~sgrvan>
- <http://pntpm.ulb.ac.be/nacre.htm>
- <http://ie.lbl.gov/astro.html>
- <http://www.phy.ornl.gov/astrophysics/data/data.html>
- <http://www-phys.llnl.gov/Research/RRSN/>
- <http://www.nuastrodata.org>