

Questions on underground study of the $^{17}\text{O}(p,\gamma)^{18}\text{F}$ reaction for explosive hydrogen burning.

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1. Why was parameter γ expected specifically to be at 511 KeV? (**Mongi**)
2. What is the difference between a Novae and type Ia supernova? (**Abinash**)
3. Why do we care about S at CM energy 0 KeV? What physical information do we get from astrophysical S-factor? (**Shamim**)
4. Why this experiment has to be done underground? What backgrounds were they trying to reduce? (**Tyler**)
5. What is meant by direct capture? (**Linda**)
6. What is a R-matrix analysis? (**Brian**)
7. Why would the S factor expected to be different for different processes, say for prompt γ and activation? (**Sushil**)
8. How does one deal with a broad resonance as opposed to a narrow resonance? (**Nick**)
9. What is the required precision for nova models? Speaker suggested that it should be less than 10%, why 10%? (**Arbin**)
10. How was the isotopic composition of the Ta_2O_5 target confirmed throughout the experiment? Why were NRRA, RBS and SIMS used to do this instead of only using one technique? (**Rekam**)
11. What is meant by Roche Lobe and inner Lagrangian point of the system? (**Douglas**)
12. What is explosive about this reaction compared to other hydrogen burnings say like in the sun? (**Nadyah**)
13. Hydrodynamic nova models (**Sudhanva**)
14. Why does a cold copper pipe reduce carbon build up? Why LN_2 cooled copper pipe is used in the fig. 2? (**Andrea**)