

Destruction of the cosmic γ -ray emitter ^{26}Al in massive stars: Study of the key $^{26}\text{Al}(n, p)$ reaction

C Lederer-Woods et. al. *Phys. Rev. C* (2021)

Discussion

1. Why do we care about ^{26}Al so much? What is its significance in nuclear astrophysics? (**Nisha**)
2. Describe in detail how the ^{26}Al target used in this experiment was fabricated. How do they achieve the level of purity in the ^{26}Al target described in the paper? (**Justin W.**)
3. In Fig. 3. (b), how do the authors arrive at an estimate for the higher resonances with counts of 5 or less? (**Bikash**)
4. What is the significance of the quantity $\omega\gamma$ within the context of this paper? (**Shyam**)
5. How did Oginni *et. al.* estimate the lower and upper bounds in Fig. 4? What went into this calculation? (**Alexandra**)
6. How did Trautvetter *et. al.* perform their measurement? How does it compare to the experimental setup of this paper? (**Pramita**)
7. **Bonus Question:** The paper states that neutrons were produced via spallation reactions of a proton beam on a lead target. Why do you want many thin layers of Pb versus one 40 cm thick chunk of lead?