

Nuclear lunch questions to be discussed on 04/16/2014

- (1) What are proportional neutron counters? How do they work? **Anthony**
- (2) How can one trace the track of a particle? What was the reason for using the CR-39 track detectors? What was the purpose/advantage? **Nick**
- (3) Why is ^4He not produced/detected by $^3\text{He} + n$? **Cody**
- (4) What was the situation with the $\sim 80 \times 10^{-3}$ neutron counts with the supermonitor detector? Why were the counts of high energy not renormalized (were they) and what are the energy ranges of the detectors? **Andrea**
- (5) How were the neutron detectors calibrated and how well were the shielding materials and setup understood?(2012 paper) **Brian**
- (6) Why in lab experiment are neutron bursts enveloped by X-rays? **Arbin**
- (7) Why did they account for the possibility of many strikes in a short period($< 1\text{m}$), would this be important? **Sudhanva**
- (8) How does a Rogowski coil work?(2013 paper) **Shamim**

Related Papers

Phys. Rev. Lett. 108, 125001 (2012)
Phys. Rev. Lett. 111, 115003 (2013)