

# NL Questions

February 5&12, 2014

1. Why is the copper shield on the target necessary? (**Nick**)
2. What are bubble detectors and how do they work? What range of energies can they be used for? What energy resolution do they have? How were they used in this paper? (**Bijaya**)
3. What is meant by bulk ion distribution vs surface for the 300nm and  $3\mu\text{m}$  target? (**Sushil**)
4. What is radiography and auto-radiography? (**Andrea**)
5. Is there an advantage to using Be(p,n) vs Be(d,n)? If so, why were both used? (**Cody**)
6. What current and future applications are there for neutrons with  $E_n > 150$  MeV? (**Linda**)
7. What are soft and hard X-rays? Where/How do X-rays enter in the experiment? (**Arbin**)
8. Is the TRIDENT laser, or another high contrast source necessary? If so would the cost of such a laser be problematic for neutron production? (**Tyler**)
9. Why does the target need to be low Z? (**TBD**)
10. What do the electrons being relativistic have to do with the transparency of the electrons to the laser? (**Anthony**)
11. What types of contaminants may be present in the final neutron beam? Are any steps taken to remove contamination? (**Bing**)