

Nuclear Lunch Questions: Week of March 11

1. What is Bjorken x ? What is its significance? **(Cody)**
2. What is polarized deep inelastic scattering (DIS)? **(Alina)**
3. What is a parton? What is a parton distribution function? **(Harsha)**
4. What is a sea quark? Why is it important? **(Andrea)**
5. How does the angular momentum contribute to the overall spin? Shouldn't the overall nuclear spin depend only on the spins of the constituents? **(Bing)**
6. Define tomography of a nucleus? **(Shamim)**
7. Why do we want to study the gluon saturation density? From the fact that nuclei have finite mass, should we expect the gluon density to saturate? **(Arbin)**
8. What is a color glass condensate? What is its significance in nuclear physics? **(Brian)**