

- **Q1.** What are the reach and experimental limitations of current and future direct neutrino mass experiments?
- **Q2.** What can we learn about neutrino mass and mass hierarchy from double beta decay experiments, and what is their future reach?
- **Q3.** What can we learn from astrophysical or cosmological observations about neutrino mass and the mass hierarchy?

Working Group Room Assignments

- Q1 – direct measurements, room C521
- Q2 – double beta decay, room C441
- Q3 – astrophysics/cosmology, room C520

- **Working Group Q2.** (Wilkerson)
- What can we learn about neutrino mass and mass hierarchy from double beta decay experiments, and what is their future reach?
 - what constitutes a discovery of $0\nu\beta\beta$?
 - what information do we need to extract information about the ν mass?
 - what is required to decide on the hierarchy?
 - what makes the NME convincing? why are the QRPA and NSM matrix elements different?

- **Working Group Q1.** (Robertson, Weinheimer, Nucciotti, Gatti...)
- What are the reach and experimental limitations of current and future direct neutrino mass experiments?
 - how to get down to 20 meV?
 - what techniques might be feasible?

- **Working Group Q3.** (Dodelson)
- **Q3.** What can we learn from astrophysical or cosmological observations about neutrino mass and the mass hierarchy?
 - ????

Working group charge

- discuss and refine science question
- formulate questions and issues to be answered in your working group
- what would be a useful output from your working group?
- we will discuss any issues/questions in plenary session tomorrow