

Day 1 presentation discussion points from Bruce Barrett

1. To fully understand nuclei we first need to understand the NN and many-nucleon forces. If using Chiral EFT, we need to settle the power counting problem and also obtain renormalization group invariance.
2. We need to discuss the use of phenomenological NN and NNN interactions vs nucleon forces derived from first principles.
3. Benchmarking calculations of the various microscopic approaches for solving the many-nucleon problem should be performed, so as to gain a better understanding of how they explained nuclear data and how well they are or are not related.
4. We need new ways for extending successful few-nucleon approaches to medium and heavy mass nuclei.
5. We need to merge the mean field approaches with the microscopic methods.
6. More effort is needed regarding microscopic reaction theory.