Deformation near driplines

Discussion session, HaloWeek’24, Thursday
Speakers: Thomas, Heather, Anna, Pengjie

Deformation and halos?

- What criteria are used to classify a state as a halo state?
  - Do these criteria need to be reevaluated in highly deformed nuclei?
- What are the most informative observables of deformed systems for learning more about the evolution of nuclear structure?
  - B(E2)s, beta decay features?

Theoretical modeling of deformation

- Are there observables that are easier/harder to model with high precision / high accuracy?
  - What are the dominating uncertainties in our theoretical modelling of nuclear deformation near the driplines?
  - Are there observables that are useful for learning more about the nuclear interaction?
- Where is the pairing gone in ab initio approaches based on chiral interactions?