

# Discussion points: Link experiment $\leftrightarrow$ theory

## **Systematic theoretical description of the nuclear landscape?**

- derivation and propagation of **systematic uncertainties**
- ways to systematically reduce uncertainties?
- ab-initio guidance for EDFs
- power counting?

## **New key experimental input**

- light nuclei?
- medium-mass nuclei?
- heavy nuclei?
- matter? (nuclear experiments and/or astrophysical observations)

## **Ab initio nuclear structure:**

- **remarkable agreement** between different many-body frameworks
- main uncertainties due to **uncertainties in nuclear interactions**

(three-body forces, renormalizability, regularization, SRG transformations...)