A Systematic Description of the Wobbling Motion in Odd-Mass Nuclei Within a Semi-Classical Formalism

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TOC

Aim

Research Objectives

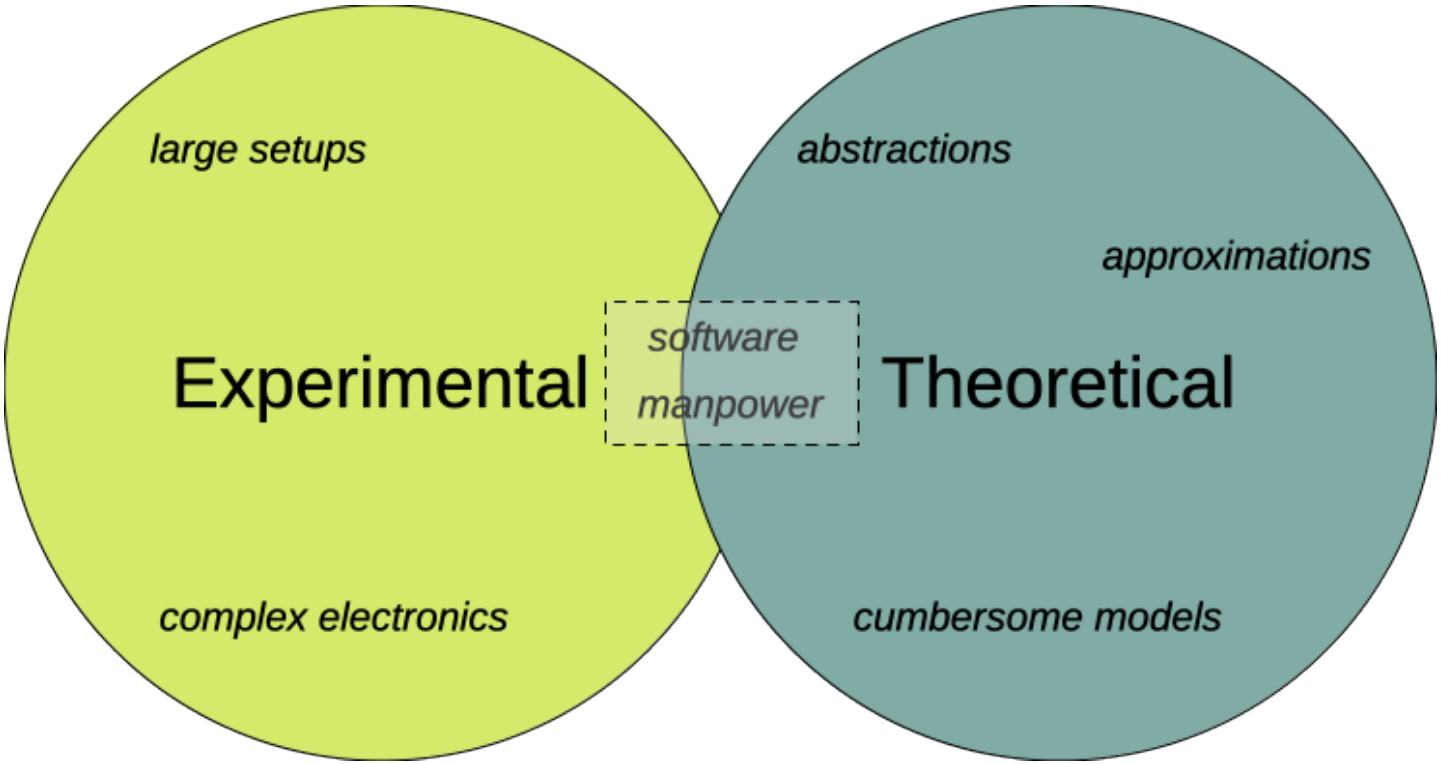
- Extend the current interpretation of the nuclear triaxiality from a theoretical standpoint.
- Provide new formalisms for the phenomena related to *nuclear deformation*.

Objectives exclusive to the thesis

- Give a detailed theoretical background and context towards a better understanding of the underlying concepts for the reader.
- create a completely *open-source* project.

Motivation

- **Nuclear Triaxiality** has become a *hot topic* within the scientific community.
- Identifying nuclei with triaxial deformations represents a real **experimental** and **theoretical** challenge



Triaxiality - Nuclear facilities

Figure: Gammasphere detector, ANL-ATLAS USA. *Source: aps.org*

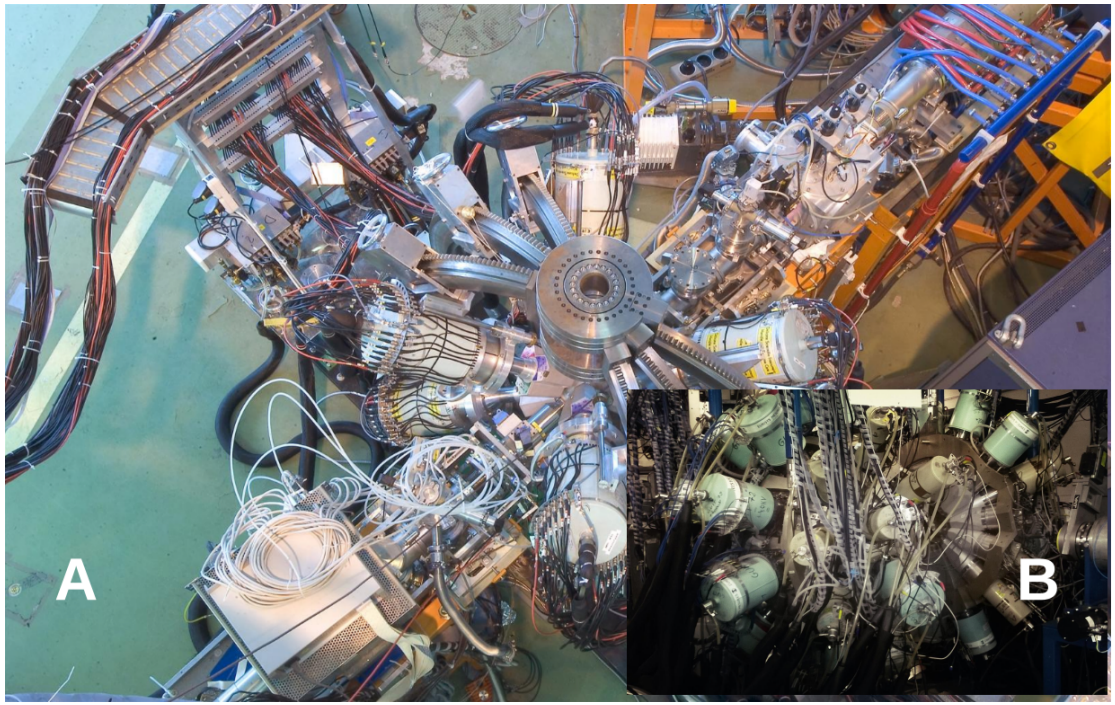


Figure: a) IDS detector, CERN. *Source: isolde.web.cern.ch* b) JUROGAM II, Finland. *Source: twitter.com*

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Thank you for your attention ❤