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

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TOC

Aim and Motivation

- 2 Introduction
 - Nuclear Shapes
 - Nuclear Triaxiality
 - Wobbling Motion

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.

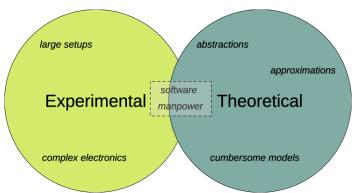
Objective exclusive to the thesis 🖪

- Give a detailed theoretical background and context towards a better understanding of the underlying concepts for the reader.
- Ocreate 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

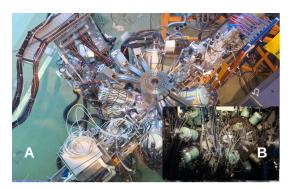


Figure: a) IDS detector, CERN. Source: isolde.web.cern.ch b) JUROGAM II, Finland.

Source: twitter.com

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Thank you for your attention ∇

