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 in the context of its unique fingerprint: Nuclear Wobbling Motion. from a theoretical standpoint
- Provide new formalisms for the phenomena related to nuclear deformation.

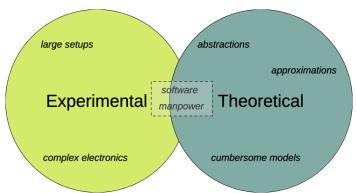
Objectives exclusive to the thesis

- Give the reader a sufficiently rich theoretical background and context towards a better understanding of the underlying concepts.
- 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

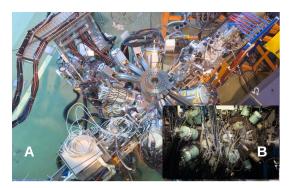


Figure: a) IDS detector, CERN. *Source:* isolde.web.cern.ch b) JUROGAM II, Finland. *Source:* twitter.com

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Thank you for your attention ∇

