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

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A presentation for the degree of Doctor of Philosophy

May 10, 2023

## TOC

Aim and Motivation

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

#### Aim

## Research Objectives 🖪

- Extend the current interpretation of the nuclear triaxiality
- Provide new formalisms for the phenomena related to nuclear deformation.
- Exclusive to the thesis: provide a detailed theoretical background and context towards a better understanding of the underlying concepts for the reader.

## Objective exclusive to the thesis 🖪

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

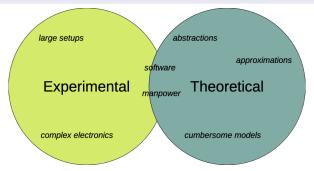


#### Motivation

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**Nuclear Triaxiality** has become a *hot topic* within the scientific community.

 Identifying nuclei with triaxial deformations represents a real experimental and theoretical challenge



### **Nuclear facilities**



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

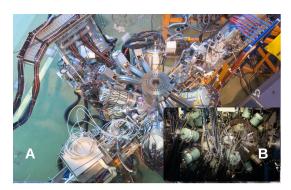


Figure: a) IDS detector, CERN. *Source:* isolde.web.cern.ch b) JUROGAM II, Finland. *Source:* twitter.com

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## Thank you for your attention $\nabla$

