INTERNSHIP PROPOSAL

(One page maximum)

Laboratory name: Michigan State University; Facility for Rare Isotope Beams (FRIB);

International Research Laboratory NPA. CNRS identification code: IRL2024

Internship director'surname: Pablo Giuliani and Kyle Godbey e-mail: giulianp@frib.msu.edu and godbey@frib.msu.edu

Phone number:

Web page: https://npa.in2p3.fr/summer-training-program/

Internship location: East Lansing, Michigan, USA

Thesis possibility after internship: NO

Funding: YES/NO, possible If YES, which type of funding:

gratification de stage CNRS (environ 700euros/mois)

Title: Development of surrogate models for expensive calculations

Summary (half a page maximum)

The incoming student will work on using dimensionality reduction techniques to develop surrogate models for expensive numerical calculations (see https://www.frontiersin.org/ <a href="https://www.frontie

Expected incoming student skills: Intermediate coding experience in at least one language (python, Mathematica, c++, fortran). Basic knowledge of differential equations.

The registration for the internship must be done on the website: https://npa.in2p3.fr/summer-training-program/

Please, indicate which speciality(ies) seem(s) to be more adapted to the subject:

Condensed Matter Physics: NO Soft Matter and Biological Physics: NO Quantum Physics: YES Theoretical Physics: YES