

Neutrinos and the Fundamental Laws of Nature

- What is it?
- Who is in it?
- What does it do?
- How can UKNF benefit?

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The main aim of the project is to initiate, sustain and promote the existing and the future collaborations among the neutrino scientists from various UK and Indian institutions.

Project awarded ~ £150k over 4 years (start date 1/7/07)

Specifically we will

- i) provide opportunities to meet and discuss topics of common interest and confront different problems.
- ii) sustain the collaborations with funding for short term and long term visits.
- iii) present our results at international conferences, workshops and publish them in peer review journals.
- iv) put strong emphasis in utilizing the great expertise available in both countries in training of the Ph.D. students.

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- Who is involved
- UK PI: Nigel Glover
- India PI: Srubabati Goswami
- UK Institutions: Durham, Manchester, Oxford, Southampton, UKNF
- Indian Institutions: HRI Allahabad, Gauhati U, INO, Saha INP,

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Training

1. We will involve somewhere between 8 to 12 students during the duration of the project who will benefit from long term visits to an Institution in the other country, with possibly the attendance of part of PhD courses there available.
2. A larger number, between 15 and 20, will have the possibility of shorter visits in foreign Institutions as well as of participating to international conferences and workshops. They will also attend the lectures given during the two workshops organized within the project.
3. On the long term the project will be instrumental in creating fruitful and stable links between the scientific communities in neutrino and particle physics from two countries as well as enriching the research environment of both nations.

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*The simultaneous study of the **INO** and **UK neutrino factory** proposals, at a time when their specifications are being defined and properties studied, will offer the possibility to optimize them and to fully exploit their synergy in the precise measurement of the neutrino oscillation parameters, in the observation of matter effects and in the discovery of the matter-antimatter asymmetry (CP-violation).*

Project can support exchanges of **INO** and **UKNF** scientists

UKIERI keywords: **step change, sustainability**

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