

# Ph.D. APPLICATION FORM

**(Closing date for applications: 3 November 2014)**

**Title of Ph.D. Proposal:** Thermal neutron scattering cross sections of liquid deuterium and hydrogen. Applications to cold moderator design. Experiments and simulations.

**Research Field:**

- Biology
- Magnetism
- Nanoscience
- Soft Condensed Matter

Other, specify the field : Quantum liquids. International neutron scattering cross sections

**Name of Supervisor:** E. Farhi (and E. Guarini)

**Name of University:** UJF (and Firenze, Italy)

**Name of 1<sup>st</sup> ILL Supervisor:** E. Farhi

**Name of 2<sup>nd</sup> ILL Supervisor:** Y. Calzavara

**ILL Instruments:**

Please indicate on which instruments your student would perform experiments:  
 IN4, IN5, IN6, BRISP

**Co-financing**

**No:**

**Yes:**  (in the proposal, please indicate the nature of your funding and the exact gross amount, if you have this figure)

### Personal details (Supervisor)

Title: Dr.    Surname: Farhi                      First name: Emmanuel

University : UJF

Position : Scientist

Work address : ILL

Post code :                      City :

Country :

E-mail : farhi@ill.fr

Work phone ☎ : 71 35

### Enclosures

#### 1/ Ph.D. Proposal (2 to 4 pages)

Give a general outline of the thesis topic. Place the thesis in its context by briefly describing the state-of-the art in the relevant field in relation to your proposal.

Give an account of any preliminary work you have done in the field. Include references to publications on the topic. Where appropriate, you may enclose copies of the most important publications (in paper or PDF format). Give details of the scientific aims of the proposal.

Indicate which experiments will be conducted within the framework of the thesis (specifying the amount of beam time needed and, if possible, on which ILL instruments).

Identify expensive items which will have to be purchased in the framework of the thesis (with an estimation of their price).

#### 2/ Supervisor's CV (please limit your publication's list to your **top 5 publications**).

### How did you hear about our Ph.D. Programme?

- Mailing list
- Brochure
- ILL web site
- Other :

