

# Learning Days of the Italian Society of Neutron Spectroscopy (SISN) 2014

(Giornate Didattiche della SISN 2014)



Introduction to neutron techniques for condensed matter studies, with applications to Physics, Chemistry, Biology and Earth sciences

**13-22 September 2014**

The Learning Days organized by the Italian Society of Neutron Spectroscopy are addressed to degree and specializing students, PhD students, post-doc and young researchers interested in acquiring the basic principles of neutron spectroscopy, in understanding the advantages and potentialities of this technique, and in exploiting it for their research.

The eighth edition of the SISN Learning Days will take place from 13 to 22 September 2014, with subject “Introduction to neutron techniques for condensed matter studies, with applications to Physics, Chemistry, Biology and Earth sciences”.

The Learning Days are characterized by two sessions. The first session provides the students with the fundamentals of neutron spectroscopy and the basic principles of data analysis. The lectures on the basic theoretical and experimental tools will be paralleled by tutorials about data analysis. During the second experimental session the students will carry out real neutron scattering measurements at the most important facility for neutron research: the high flux reactor of the Institut Laue-Langevin (ILL) in Grenoble, France (<http://www.ill.eu>).

The first part of the school, from 13 to 17 September will be held at Hotel Steinpent in S. Giovanni Valle Aurina (in the province of Bolzano, Italy) (<http://www.steinpent.com>). With favourable weather conditions, a pause day is foreseen (on Monday 15 September) during which students can take part to an excursion in the mountains organized by the school. Monday evening will instead be devoted to the presentation of the experiments foreseen in Grenoble. On Thursday 18 September students will leave S. Giovanni to reach Grenoble in the evening. The school organizes the travel to Grenoble.

The second session will take place from 19 to 22 September, with two full days of measurements. At the end of the experiments the students will present a short report, in the form of a seminar, certifying their activity during the school. A committee composed by the school directors and experimental tutors will assign a prize for the *best presentation*.

Other informations:

Arrival at Hotel Steinpent in Valle Aurina (in charge of and individually organized by the participants) should take place within Friday 12 September evening. Stay and meals, both in Valle Aurina and in Grenoble, are booked and organized by the school. Departure from Grenoble and return travel, foreseen on Tuesday 23 September, is in charge of and individually organized by the students.

To apply for participation just fill in the attached form and send it, by e-mail and **within 30 April 2014**, to Eleonora Guarini, Dip. Fisica e Astronomia Firenze and ILL-Grenoble at email address: [guarini@fi.infn.it](mailto:guarini@fi.infn.it). For experimental reasons the number of participants is limited, and the possibility to participate at the school will be expressively communicated to each applicant.

Application and subscription are free. SISN will provide some grants to partially cover the expenses for stays and meals, both in Valle Aurina and in Grenoble.

Further information and details will soon be provided on the web site of Società Italiana di Spettroscopia Neutronica ([www.sisn.it](http://www.sisn.it)) under the link “Scuole SISN”.

**Directors of the LD 2014 edition:**

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