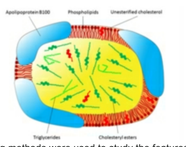
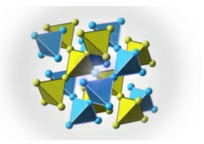
THE EUROPEAN NEUTRON SOURCE

Consult our web site and follow us on Twitter !
Next proposal deadline is 14 September for beam time in 2018.
For quicker access to beam time you can apply for EASY time or DDT.

SPOTLIGHTS ON SCIENCE



Neutron scattering methods were used to study the features of low-density lipoprotein (LDL) particles. Lipid composition of human LDL and its physicochemical characteristics are relevant for proper functioning of lipid transport in blood circulation. Read more



A neutron diffraction experiment under pressure on D20 and muon spin resonance enable a new observation of the quantum spin ice, magnetic state of Yb2Ti2O7.
Read more

A SANS and reflectometry study at ILL - in collaboration with the Institute for Molecular Engineering at the University of Chicago and the Institut de Biologie Structurale in Grenoble – enhance our knowledge of diabetes, one of many chronic diseases on the rise. Read more

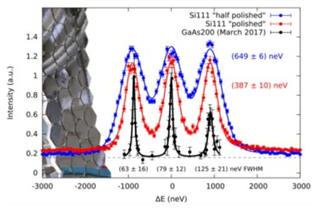
Since it became operational, ThALES is the new reference for cold neutron, single crystal spectroscopy at a steady state neutron source like the ILL. The first ThALES publication, on quantum spin liquids, has just appeared in Nature. More information can be found here.

More about ILL success stories here.

INSTRUMENT & TECHNICAL UPGRADES

New world record in backscattering energy resolution

Cold neutron backscattering spectrometers have provided the neutron community with sub-micro-eV energy resolution for decades. While count rates have increased by 5 orders-of-magnitude compared to the first spectrometer 50 years ago, no noteworthy improvement of the energy resolution had been realised until today. With single crystals of Gallium Arsenide instead of Silicon on both monochromator and analyzers, we achieved an energy resolution of 75 neV with a small, prototype analyser in a first test measurement on IN16B in March 2017.
Read more.



USER PROGRAMME

Review Committees

The **ILL's Scientific Council and its Subcommittees** met on April 4-7. Membership of the Council has been significantly renewed this year. The new Chair, Christian Rueegg from PSI, and the members endorsed the extension (Phase 2) of the Endurance upgrade programme and nominated Ken Andersen (ESS) to chair the instrument sub-committee, which will evaluate a subset of the 37 instrument and infrastructure proposals.
The ILL subcommittees reviewed 592 proposals, requesting 3909 days. 377 proposals were accepted for a total of 2075 instrument days.

ILL Support Facilities

In order to be successful, many experiments at ILL require extensive support with sample preparation and characterisation, as well as the analysis and interpretation of experimental data. The ILL provides many resources for its users, some via partnerships with neighbouring research facilities.
Check what is available before preparing your experiment.
Labs & Facilities

Industry relevance of accepted proposals

We would like to better flag those experiments that are clearly industry related, where a direct or indirect link with a company can be identified. Since the web application form does not seem to capture accurately industry related proposals, we have asked users awarded beam time at the last round to inform us if they have industry sponsorship of any kind for their work. Industry involvement in academic research, as well as direct industry use of our facilities, is something that the ILL encourages and rapid access to beam time through the DDT mechanism can be used for urgent work relating to research grants from industry.

LET's TWEET

ILL has a Twitter account: @ILLGrenoble. Do you?
Why not send a tweet when your experiment starts, of new results, a problem solved, a workshop, etc.
Don't forget to cite our account. It's fast, and it's simple - just 140 characters to write.
Get tweeting!

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