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NEXT PROPOSAL DEADLINE: 15 SEPTEMBER

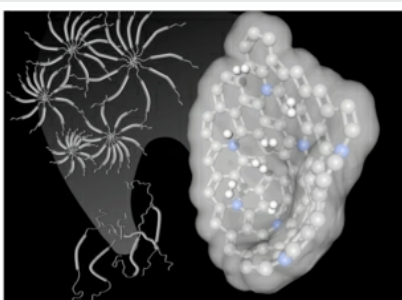


Joint ESS ILL User Meeting

In view of the Covid-19 situation, the meeting will now be held as a digital conference. The plenary sessions, with an exciting list of speakers, will take place on the original dates (23-25 September), while parallel sessions will now be topical workshops of variable format later in the year.

Please register at <http://www.neutrons4europe.com/> to have full access to the online presentations.

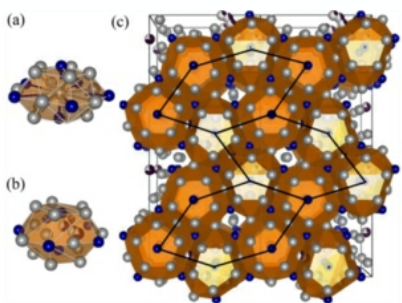
HIGHLIGHTS AND SCIENCE NEWS



Ultra-fast diffusion of hydrogen in a novel mesoporous N-doped carbon

The synthesis of stable and cost-effective new materials is paramount for the development of advanced technologies. At the same time, new and exciting insights can be made about material properties to better inform their development in the future. In a new study published in Carbon, researchers used instruments at the ILL to test a new carbon-based material, named D-96-7, and found exciting diffusion capabilities that may have applications for sustainable energy.

[Read more](#)



Understanding phonon lifetimes and thermal conductivity in thermoelectrics

Combining inelastic neutron and x-ray scattering with atomic scale simulation, researchers carried out a comprehensive study of the lattice dynamics and their relationship with the low thermal conductivity of the o-Al₁₃Co₄ phase, a periodic approximant (about 100 atoms per cell) to a decagonal quasicrystal. The experimental data, phonon lifetimes, and temperature-independent lattice thermal conductivity can only be fully described by molecular dynamics simulations when the disorder of 12 Al sites is properly taken into account. The results pave the way for a detailed understanding of thermoelectric materials where structural complexity and local disorder are at play.

[Read more](#)

[MORE HIGHLIGHTS HERE !](#)

[A SELECTION OF RECENT ILL PUBLICATIONS](#)

GENERAL NEWS

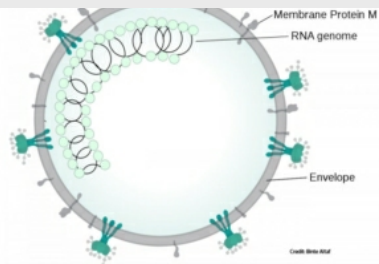


Jacques JESTIN is the new Head of DPT

On 1st May, Jacques Jestin took up his duties as the new Head of the Technical Division (DPT) at the ILL. Jacques Jestin joins the ILL from the CNRS, and more specifically from the Laboratoire Léon Brillouin in Saclay, where he was in charge of the equivalent of the ILL Large Scale Structure (LSS) group. His links with the ILL go back a long way. He has been coming to the ILL regularly since 2009 to carry out experiments, in particular on D11 and D22, but also on IN15, IN11 and D7. For three years he was a member of Subcommittee 9 of the Scientific Council. He will be Head of DPT for 17 months, before becoming Director of the Science Division on 1st October 2021 and French Associate Director as of 1st October 2022.



[ILL response to the challenges posed by Covid-19](#)



At the ILL, the coming cycle will constitute a significant opportunity to perform early research related to Covid-19 on many of our neutron scattering instruments. The deuteration facilities and shared biology and soft matter facilities on the the EPN campus contribute to this unique research opportunity. ILL scientists working in the field of biology are already applying their expertise in the quest to understand Covid-19, building on [their previous research](#). For rapid access to beam time, Director's Discretionary Time (for full experiments) and Easy Access (for short measurements) should be used. [Read more](#)

NEWS FOR USERS

Important information for users being able to come on site

The next reactor cycle will start on 11 August and it was scheduled assuming that most users cannot come to ILL.

New software tools for remote instrument control and data treatment will be trialled during this cycle.

Those users who will be able to come to ILL for their experiments **must carefully read and follow** the working procedures and practical issues for visitors on site.

[Read more](#)

Next reactor cycles:

11 August until 28 September (49 days).

Three cycles in 2021 before the long shutdown which starts in August 2021.

Autumn 2020 proposal round:

Proposal deadline: 15 September 2020 (midnight central European time)

Subcommittee meetings: 3-4 November 2020

Scientific Council: 5-6 November 2020

Accepted proposals will be scheduled in the Spring 2021.

[Previous issues of the ILL newsletter](#)

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www.ill.eu
communication@ill.eu
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