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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.

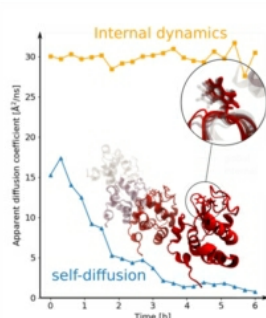
HIGHLIGHTS AND SCIENCE NEWS



Exploring new materials for supercapacitors: how do ionic liquids diffuse in nanopores?

Supercapacitors are up-and-coming, energy storage devices, often used to store energy from renewable energy sources like wind turbines where power is intermittent. They combine the best of batteries and traditional capacitors – like batteries, they are able to store lots of energy but are faster to charge and are not made from toxic materials, and like capacitors, charge is accumulated through the adsorption and desorption of ions from an electrolyte on the surface of an electrode, which also makes it lightweight and low cost. Getting this right is important as wind farms now provide 14% of the European Union's power!

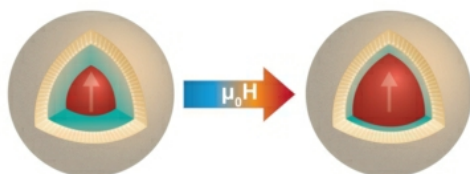
[Read more](#)



Following protein aggregation in real time by neutron spectroscopy

Protein aggregation into amyloid superstructures is the molecular manifestation of a large variety of neurodegenerative diseases such as Alzheimer's and Parkinson's. Evidence is increasing that transient on-pathway oligomers are actually the toxic species, such that time-resolved monitoring of protein aggregation is highly desirable.

[Read more](#)



Magnetic nanoparticles change their magnetic structure in a magnetic field

When ultrafine magnetic particles are exposed to an external magnetic field, their magnetic core grows in a previously unexpected way. This was observed by a team of scientists from Germany and the ILL, by employing polarized neutron scattering. The results allow for a more precise understanding of the structure and behaviour of magnetic nanoparticles in a magnetic field, which is important for numerous applications

[Read more](#)

[MORE HIGHLIGHTS HERE !](#)

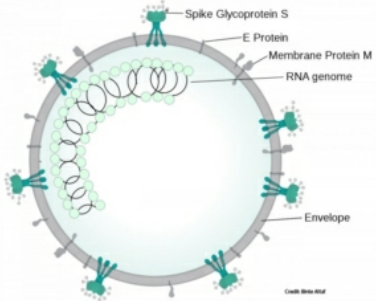
[A SELECTION OF RECENT ILL PUBLICATIONS](#)



Slovenia is now a member state of the ILL

Slovenia's National Institute of Chemistry (NIC) joins the world's flagship neutron science facility, the Institut Laue-Langevin (ILL), as a Scientific Member, opening the door for Slovenia's scientists and industry to cutting-edge research with neutrons, to drive innovation and tackle global challenges.

[Read More](#)



ILL response to the challenges posed by Covid-19

At the ILL, the current cycle is the first opportunity to perform early research related to Covid-19 on our neutron scattering instruments. The deuteration facilities and shared biology and soft matter facilities on the EPN campus contribute to this unique research opportunity. We expect to receive more proposals on Covid-19 research in the coming proposal rounds.

[Read more](#)

NEWS FOR USERS

Important information for users being able to come on site

The current reactor cycle 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](#)

The panel meetings planned in November 2020 will be again run remotely.

All necessary information will be circulated soon to all panel members.

Reactor cycles:

11 August until 28 September (49 days).

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

Next proposal rounds:

Autumn 2020

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

Subcommittee meetings: 3-4 November 2020; Scientific Council: 5-6 November 2020.

Spring 2021

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

Subcommittee meetings: 29-30 March 2021; Scientific Council: 31 March- 1 April

Accepted proposals will be scheduled before August 2021.

Webinar for users

On 1 September, Mark Johnson (Science Director of the ILL) organised a webinar for all ILL users.

Its purpose was to give an update on ILL operations, including proposal rounds and cycles, as well as the delivery of projects and therefore new capability.

The presentation was followed by a Q&A session. If you could not join the webinar, you can find the presentation [here](#).

[Previous issues of the ILL newsletter](#)

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