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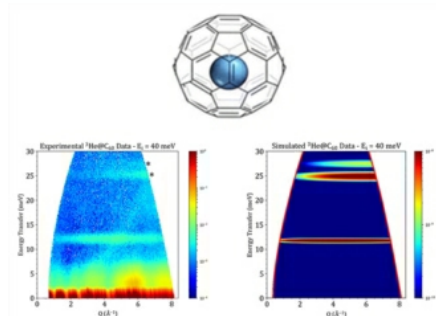


SAVE THE DATE - 28 March 2024

Prof. Anton Zeilinger

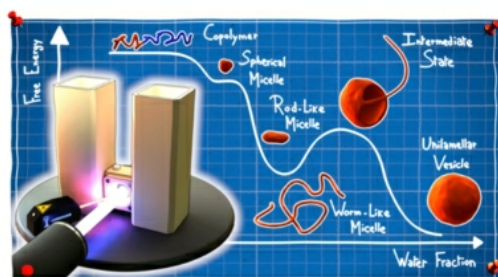
A joint colloquium ILL /ESRF

HIGHLIGHTS AND SCIENCE NEWS



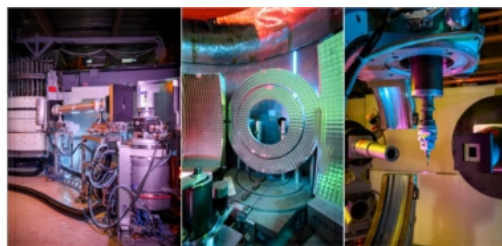
Endofullerenes – a nanolab for studying quantum dynamics of encapsulated atoms and molecules

Neutron spectrometers (PANTHER at the ILL and TOSCA at ISIS), were used to provide valuable insights into the energy levels, excitations, and therefore the interactions in the 3He@C60 endofullerene, enabling a deeper understanding of the quantum behaviour of 3-He within the confined space of the fullerene cage. This work extends an extensive programme of research conducted mainly at ILL with the Universities of Nottingham and Southampton, studying small molecules like H₂, H₂O, CH₄, NH₃ and HF in fullerenes. [Read more](#)



Filming the self-assembly of macromolecules in slow motion!

In an article published in ACS Macro Letters, a team of physicochemists describes a novel approach which uses neutron and light scattering to monitor in-situ the self-assembly of amphiphilic block copolymers in near-equilibrium conditions. These results offer a wealth of possibilities for observing and better understanding the organisation of complex biological and synthetic macromolecules in aqueous solutions. [Read more](#)



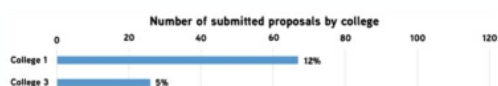
ENDURANCE H24

New and upgraded instruments - XtremeD, IN13+, D10+ - are now commissioned and delivering science in the user programme. More information about Endurance in the next newsletter.

Photos: L. Thion

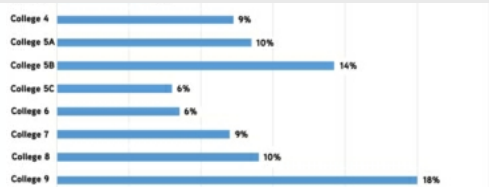
[MORE HIGHLIGHTS HERE !](#)

NEWS FOR USERS



Proposal round

543 proposals were submitted by the latest deadline. They will be reviewed during the panel



meetings in November, and scheduled between February and April 2024.

Next proposal deadline will be on 25 January 2024, with subcommittee meetings planned on 25-26 March 2024.

Easy Access requests for short measurements and **DDT requests** for full experiments to be performed as soon as possible can be submitted at any time. Instructions are detailed [here](#).

[Previous issues of the ILL newsletter](#)

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