



574th ASRC Seminar

Date: 13:30 ~15:00, 31 October

Location: Meeting room 302, ASRC Building

Speaker: Dr. Timothy Ziman

(Institut Laue Langevin and CNRS)

Title: Neutrons on a surface
of liquid helium - informal discussion

In the past few years, experimentalists have managed to trap ultra-cold neutrons in the earth's gravitational potential close to the surface of well-polished mirrors. More recently there has been the idea of using the surface of liquid helium as an alternative. I will discuss past experiments on such ultra-cold neutrons, as well as recent calculations of mechanisms limiting the binding of the neutron to the surface.

These calculations are work in progress with Pavel Grigoriev of the Landau Institute, Moscow, A. D. Grigoriev of Samara State University, and Oliver Zimmer of the Institut Laue Langevin.



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