

50 years of D11

A history of SANS
at the ILL



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D11 & Small Angle Neutron Scattering – A Paradigm of ILL (remote)

Tuesday, 27 September 2022 09:00 (25 minutes)

D11 at the ILL Grenoble is an exceptional tool for diverse areas of European and worldwide science and technology. Its value stems from the pioneering work of Springer, Schmatz and Ibel, (1,2) and the quality of a sequence of “instrument responsables”, technicians and users since 1972. Long wavelength, well collimated neutron beams has been a success everywhere. I will touch on some pleasant examples of our experiences:

1973 at the start of biological work- Collagen and Tobacco Mosaic Virus- with Andrew Miller and Peter Timmins,

1974 the first spin echo instrument- with Ferri Mezei, -

1979 the Deuxieme Souffle,

2009 Saving a Figaro experiment with Jared Raynes, Peter Lindner,

2015 Australian High Court re. what is an emulsion ?-with Andrew Jackson,

2022 Current USANS from Emulsions on Kookaburra, ANSTO with Liliana de Campo, Kevin Galvin.

Many people have participated in other major work at ILL including John Hayter, Maurice Leslie, Graham Jenkin, Robert Thomas, Jeff Penfold, Ron Ghosh, Karen Edler. I am glad to acknowledge them.

(1) J. Mol. Biol. (1969) 41,231-236 Neutron Small-angle Scattering from Aqueous Solutions of Oxy- and Deoxyhaemoglobin R. SCHNEIDER, A. MAYER Physik-Department der Technischen Hochschule, München, Germany W. SCHMATZ, B. KAISER AND R. SCHERM Institut für Festkörper- und Neutronenphysik der Kernforschungsanlage Jülich, Germany (Received 15 November 1967, and in revised form 1 January 1969)

(2) Theory of a velocity focussing instrument for neutron small angle scattering” K Ibel, W. Schmatz, T Springer, Kernphysik und Kernchemie, Atomkernenergie 17, 13-18, 1971

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