Bilayers at the ILL

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The rich phenomenology of glycolipids and membrane-anchored polysaccharides - Insights from scattering techniques and complementary computer simulations

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Biological membranes often contain considerable amounts of glycolipids or membrane-anchored polysaccharides. Both can strongly influence the membrane characteristics in terms of their interactions with ions [1] and molecular components of the aqueous medium [2], their interactions with adjacent membranes [2, 3], and their in-plane organization [1], among others. We use various scattering techniques with x-rays and neutrons and complementary computer simulations to elucidate these phenomena on the molecular level.

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[2] I. Rodriguez-Loureiro, V.M. Latza, G. Fragneto, E. Schneck, *Biophys. J.* 114 (2018), 1624–1635
[3] M. Kanduc, A. Schlaich, A.H. de Vries, J. Jouhet, E. Maréchal, B. Demé, R.R. Netz, E. Schneck, *Nat. Comm.* 8 (2017), 14899

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