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Perspectives in the structure and collective dynamics of multi-component membranes. Tim Salditt, Univ. of Göttingen, Germany.

We review recent X-ray and neutron experiments on membranes with an emphasis on oriented lipid bilayers. We address the current status and future perspectives, including sample preparation, sources, instrumentation, and data analysis. Where and to which extent can these methods contribute to the understanding of multi-component membranes? What are the present and future challenges, and how do these techniques compare to other methods.