

Experimental report

18/04/2023

Proposal: TEST-3246

Council: 4/2023

Title: Feasibility test for 9-10-1736 "Dynamics and Structure of Bicontinuous Microemulsion in Confinement"

Research area: Soft condensed matter

This proposal is a new proposal

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Local contacts: Ingo HOFFMANN

Samples: controlled pore glass CPG-10
microemulsion- D2O/octane/C10E4

Instrument	Requested days	Allocated days	From	To
IN15	1	1	17/04/2023	18/04/2023

Abstract:

Proposal 9-10-1736 was rejected but it was suggested to do a test to demonstrate feasibility, which we are doing now

Test Measurement for Bicontinuous Microemulsions in Nanoporous Materials.

A test measurement has been performed on IN15 comparing the dynamics of a free microemulsion (full symbols) and the same microemulsion in a nanoporous material (open symbols). Even after correcting both curves with the appropriate background (D_2O and nanoporous material loaded with D_2O) a difference in dynamics can be seen and the dynamics of the microemulsion in the nanoporous material is slowed down significantly.

