

Experimental report

07/02/2017

Proposal: INTER-347

Council: 10/2016

Title: Internal time on FIGARO

Research area:

This proposal is a new proposal

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Experimental team: Loïc JOLY
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Local contacts: Giovanna FRAGNETO

Samples: Silicon
D2O
Nanoparticles
LIPIDS

Instrument	Requested days	Allocated days	From	To
FIGARO	2	2	28/09/2016	30/09/2016

Abstract:

Experiment N°INTER-347

Instrument: FIGARO

Dates: 28-30/09/2016

Internal time on FIGARO.

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Local contact: G. Fragneto¹

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Experimental. The aim of this internal time was to test a double lipid bilayer composed of a first supported lipid bilayer made of DSPC lipids on top of which is floating a DMPC lipid bilayer. A layer of solvent with a thickness of 20-30 Å is present between the two lipid bilayers. The 3 first monolayers were deposited using Langmuir-Blodgett technique, the last monolayer was formed using Langmuir-Schaefer deposition. Samples were prepared right before the experiment.

Results. The test was successful and floating bilayers with a coverage of at least 80% were measured.