Experimental report

Proposal: 7-01-453		Council: 10/2016					
Title:	Micro	Microscopic origin of the Li superionic conduction in Li4C60 fulleride					
Research are	ea: Mater	ials					
This proposal is	s a new pi	roposal					
Main propos	ser:	Stephane ROLS					
Experiment <i>a</i>	al team:	Tetiana NAGORNA Aljosa HAFNER Chiara CAVALLARI Petr DOLEZAL Andrea KIRSCH Pelle GARBUS Troels Lindhal CHRIS Giovanni MACETTI Cettina BOTTARI	TIANSEN				
Local contac	ets:	Stephane ROLS Bernhard FRICK					
Samples: LI	I4C60						
Instrument		Requested days	Allocated days	From	То		
IN4			6	3	05/03/2017	08/03/2017	
IN5			4	0			

Abstract:

The goal of this proposal is to correlate the temperature dependence of some phonons modes specific to the Li4C60 polymeric carbon backbone to the Li ionic diffusion. There is therefore need for coupling INS investigations that we propose to perform on the IN4C spectrometer to QENS measurements that we propose on IN16B. This will shed some light onto the microscopic origin of the very large Li diffusion in this material.

NOTE: This is a CONTINUATION proposal of 7-07-272 performed on IN6 in 2007. It was NOT possible to indicate it is a proposal in the system as "7-07" does not exist anymore. However, the experimental report was provided by the author a long a time ago.

To be submitted soon.