

Title (WP#)	NMI3-FP7-JRA-II-WP19 "Advanced methods and techniques"		
Responsible	Javier Campo		
Period	M28		
Activity type	Coord / RTD		
Tasks	Task 19.1: Sub-mm3 samples for extreme environments Task 19.3: Spin Echo with Oscillating Intensity for the ESS Task 19.4: Choppers for the ESS instrumentation Task 19.5: Polarising all neutrons in a beam		
Deviations from Description of work (Annex 1) & corrective action			
Deliverable	Due date	Progress and Deviations from DOW with corrective action.	Expected/ Achieved Date
D19.1 Report on performance of prototype	48	<p>It was agreed that Victor should continue with his simulations to confirm which magnet should be used. Eddy will re-run the simulations with the definite dimensions of the magnet. The resulting simulations will be compared with Victor's simulations. It was estimated that the simulations could be ready in 6 months.</p> <p>Based on this the focusing optics can be built. Fran will develop the drawings for the focus optics. This should be ready by the end of the year.</p> <p>ILL will pay for the prototype. The 11T magnet should be received by the beginning of next year. When the magnet is received the final dimensions can be measured and the design can be updated with the updated dimensions.</p>	On Schedule
D19.2 Report on performance of prototype KB mirrors	48	<p>It was agreed that it was not realistic to do this and it would be more beneficial to do multichannel simulations. It was agreed to request the replacement of this deliverable with the multichannel simulations.</p>	Request Replacement of Deliverable
D19.3 Report on design of long-pulse diffractometer for extreme environments	48	<p>The situation will be clarified and we will negotiate the possibility of using the feasibility study of the ESS.</p>	TBC
D19.4 Report on design of long-pulse crystal-analyser instrument for extreme environments	48	<p>The calculations currently being carried out are for continuous source not long pulse. It is estimated that 6 months would be required to modify the computation. These calculations may have been done by the ESS. Javier will also clarify this with Ken Andersen.</p>	

D19.5 Report on performance of prototype Multiple-beam SANS experiments	48	Cancelled	Cancelled
D19.6 Design report	24	Delivered	Delivered
D19.7 Performance report	36	Check with Wolfgang Häußler if any problems are foreseen and if this will be delivered on time.	TBC
D19.8 Report on the requirements	24	Delivered	Delivered
D19.9 Report on the measurement strategies and the design of data analysis system	36	Check with Wolfgang Häußler if any problems are foreseen and if this will be delivered on time.	TBC
D19.10 Report on the proof of principle measurements	48	Check with Wolfgang Häußler if any problems are foreseen and if this will be delivered on time.	TBC
D19.11 Report on mechanical layout and FE-calculation	36	Michael Monkenbusch confirmed that this deliverable should be delivered on time. No problems are foreseen	On Schedule
D19.12 Report on Neutronic layout of single rotor	36	Michael Monkenbusch confirmed that this deliverable should be delivered on time. No problems are foreseen	On Schedule
D19.13 Report on conceptual desig	42	Michael Monkenbusch confirmed that this deliverable should be delivered on time. No problems are foreseen	On Schedule
D19.14 Delivery of the prototype, following design and procurement	30	Katia is expected to go to ESS so Phill will discuss D19.14 and 19.15 with her and send details to Javier. A report for this is required. If the report shows that the cost of the prototype is excessive then it obvious that it cannot be completed.	TBC
D19.15 Report and publication of the test results	38		

	Beneficiary	A	B	C
A) Total Person Months (PM) allocated to project (including facility contribution) per contributing partner (Annex 1, Part A, p.96)	ILL (1)	36	16	
	STFC (2)	20	8	
	TUM (3)	40	18.5	
B) Total staff effort charged to project per contributing partner (Annex 1, Part B p.32)	Jülich (4)	36	13	
	TUD (12)	17	7	
	UNIZAR-ICMA (17)	42	12	

C) Staff effort charged to project in period (Month n – n+6)	ESS (18)	42	18.5	
Meetings/Conferences/Workshops attended (financed by NMI3)	Internal meetings (...participants,organising beneficiary etc) NMI3-II WP 19 Mini Workshop, Zaragoza 12th-13th of March 2014 Participants: Eddy Lelièvre-Berna (ILL) Phillip Bentley (ESS) Michael Monkenbusch (Jülich) Javier Campo (ICMA-Unizar) Victor Laliena Bielsa (ICMA-Unizar) Francisco José Garcia Soto (ICMA-Unizar) Emma Lythgoe (ICMA-Unizar) Organising beneficiary: UNIZAR-ICMA			