SANDA

Supplying Accurate Nuclear Data for energy and non-energy Applications

SANDA EXCOM Meeting 01
10/09/2020, visioconference

WP1 status, impact of COVID, Risks, Specific Changes

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Feedbacks from project leaders…
Impact of COVID

Task 1.1: innovative devices from fission cross section to Fission products decay

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task leader : CEA/DRF/IRFU Frank Gunsing

subtask	Partners	Lead and financed institut	collaboration	project leader	Subject	deliverables	deliverable date & responsible	Milestones	Milestones date & responsible
1.1.1	CEA	CEA/DRF/IRFU	TUW, JRC-Geel, ...	F. Gunsing	development of a micromegas Time projection Chamber	D.1.1 "Report on the study and construction of new devices for precise fission cross section measurements"	M48 CNRS	MS.6 Completion of simulations for a MicroMegas-based time projection chamber at CEA/DRF/IRFU	M24 CNRS/CENBG
	CNRS	CENBG	CEA/DEN, LPSC	L.Mathieu	development of a new gaseous proton recoil detector			MS.5 Completion of GRPD - gaz recoil proton detector at CNRS/CENBG	M24 CEA/DRF/IRFU,
1.1.2	JYU	JYU	U.U.	H. Penttilä	development of a new large gas cell with electric field guidance for IGISOL	D.1.2 "Report on the design of the large gas cell for IGISOL"	M24 JYU	MS.2 Completion of simulations for new gas cell with electric field guidance at IGISOL, JYU, M18	M18 JYU
	CEA	CEA/DRF/IRFU	GANIL, ILL...	D. Doré	coupling of FALSTAFF with FIPPS @ ILL	D.1.3 "Report on the performances of new devices for precise study of fission products and their decay in view of measurements"	M24 CEA	MS.1 Completion of the simulation for the coupling of FALSTAFF and FIPPS at ILL	M12 CEA/DRF/IRFU
	UPC	UPC	IFIC	F. Calvino	build a new version of BELEN optimized for maximum total efficiency and spectrometric response			MS.7 Completion of the design of the new version of the BELEN detector at UPC	M12 UPC
	CEA	CEA/LNE-LNHB	SUBATECH, IFIC	M. Kellet	new measurement facility dedicated to the measurement of half-lives			MS.3 Completion of a new measurement facility by CEA/LNE-LNHB	M18 CEA/LNE-LNHB

WP2 continuation

Impact and Estimated delay (months)	Delay on MS and D
Yes, 3	No
Yes, a few months	Yes on MS, No on D
Yes, 6	Yes (MS & D)*
No	No**
Yes, 12	Yes on MS (12) Yes on D (16)***
Yes, 6	Yes (MS)***

* Delay doesn't impact the end of the project (D1.2 due for M24)

** MS report promised for the end of September, BUT changes for the aim of project see Daniel presentation

***Even delay also on D, no impact on the end of the project (but impact on WP2 work)

Summary task 1.1: some delays on milestones and deliverables due the COVID 19 crisis, no impact on the end of the project foreseen at this time for WP1 deliverables but potential consequences for WP2 work.

Feedbacks from project leaders…
Impact of COVID

Task 1.2: innovative devices for neutron emission studies

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task leader : CERN Massimo Barbagallo

subtask	Partners	Lead and financed institut	collaboration	project leader	Subject	deliverables	deliverable date & responsible	Milestones	Milestones date & responsible
1.2.1	CEA	CEA/DEN/CAD		R. Jacqmin	build of a compact fast neutron spectrometer based on a single organic crystal,	**D.1.4** "Report on the commissioning of a compact broad-band fast neutron spectrometer"	M36 CEA	**MS.4** Completion of the design of the fast neutron spectrometer at CEA/DEN	M24 CEA
1.2.2	CERN	CERN	Univ. Manch., NTUA, Univ. Ion., IFIN-HH	M. Barbagallo	development of Germanium detectors for (n,xn) measurements at n-TOF	**D.1.6** "Report on the performance of the HPGe equipped with newly developed electronics"	M48 CERN	**MS.8** Completion of the commissioning of the HPGe equipped with newly developed electronics at CERN	M24 CERN
1.2.3	CEA	CEA/DAM		G.Belier	development of the SCONE detector	**D.1.5** "Report on the performance of the SCONE setup at NFS"	M48 CEA	**MS.9** Completion of the installation of the SCONE setup at NFS	M24 CEA

Impact and Estimated delay (months)	Delay on MS and D
Yes, 5	Yes (MS & D)*
Yes, 6	Yes (MS)**
No	No

*Delay doesn't impact the end of the project (D1.4 due for M36)
** if situation comes to normal, no delay foreseen on deliverable

Summary task 1.2: some delays on milestones and deliverables due the COVID 19 crisis. Only subtask 1.2.2 has a risk to not achieve the deliverable in time (M48) (if the current situation degrades)

Feedbacks from project leaders…
Impact of COVID

Task 1.3: innovative devices for capture cross section measurement on actinides

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task leader : CIEMAT Emilio Mendoza

subtask	Partners	Lead and financed institut	collaboration	project leader	Subject	deliverables	deliverable date & responsible	Milestones	Milestones date & responsible
-	CIEMAT	CIEMAT	Univ. Sevilla	E. Mendoza	development of CLYC detector for (n,g) XS measurements @EAR2 n_TOF	**D.1.7** "Report on the development and performances of the new detectors for capture cross section measurements at n-TOF"	M48 CIEMAT	**MS.10** Completion of the new detectors for capture measurements at n-TOF	M36 CIEMAT
	UPC	UPC	IFIC	F. Calvino	extend the i-TED technique for measurement on actinides @EAR2 n_TOF				

Impact and Estimated delay (months)	Delay on MS and D
No	No
No	No

Summary task 1.3: at this date, no impact, no delay.

Feedbacks from project leaders…
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Task 1.4: detectors for non-energy application

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task leader : PTB Ralf Nolte

subtask	Partners	Lead and financed institut	collaboration	project leader	Subject	deliverables	deliverable date & responsible	Milestones	Milestones date & responsible
-	HZDR	HZDR	PTB	A. Junghans	DDX (n,lcp) meas @ n-tof from 20 to 200 MeV	D.1.8 "Report on the development and performances of the new detectors for non-energy applications"	M24 PTB	-	-
	PTB	PTB	HZDR	R. Nolte	DDX (n,lcp) meas @ n-tof from 20 to 200 MeV				

WP2 continuation

Impact and Estimated delay (months)	Delay on MS and D
No	No*

* Ralf mentioned that the recruitment of the post doc could not be done at the start of the project (as usual), thus the work starts only now

Summary task 1.4: A priori, no delay for WP1 but the project continues in WP2.

Impact of COVID on WP1 work

Summary

To note: this summary reflects, obviously, the situation now, without any clear vision of what will be the next months (availability of facilities for tests, work conditions, ...?).

From my point of view, the situation for WP1 is not so bad due to the nature of work in WP1 (detector developments, no strong dependence to facilities, major part of MS & D deadlines before the end of the project).
Today, and if the situation doesn't degrade again during the coming months, all deliverables will be provide before the end of the project, but we will have to deal with **some delays for MS and D inside the time frame of the project**.
Only **one subtask has a potential risk to not achieve the deliverable M48** at the end of the project if the situation degrades again.
As some projects (4) have **continuation in WP2**, we have to be vigilant for them as **delays in WP1 induce delays in WP2**.

CNRS in SANDA: a stage point

- **COVID situation**: main contributions of CNRS in SANDA concern experimental activities, thus the impact of the COVID crisis is important (see WP leaders summary).

- One collaborator (B. Jurado, CENBG) has decided to leave the project – task 2.1.1, D2.1 MS?. What is the procedure? How to manage this? (no work has been done, no money has been spent)