



### Report on ENSAR2 FCG meeting

DATE:	2018/10/23	OBJECT:	FCG meeting
N/REF:	ENSAR2/FCG/2018.01	LOCATION:	Frankfurt, Germany
PREPARED BY:	M. Lewitowicz, G. Neyens, K. Turzó	AFFILIATED DOCUMENTS:	

INFRASTRUCTURE	GANIL	LNS-LNL	ISOLDE	JYFL	ALTO	GSI	KVI-CART
PARTICIPANTS	N. Alahari M.N. Harakeh S. Lecerf-Rossard M. Lewitowicz	D. Bettoni	G. Neyens K. Riisager	S. Lenzi	F. Ibrahim M. Lebois	K. Füssel	B. Jones A. van den Berg
ABSENTEES	A. Gade K. Turzó	C. Fahlander G. Cuttone Y. Blumenfeld		P. Greenlees	M. Guidal R. Casten	S. Galès P. Giubellino	
INFRASTRUCTURE	NLC	IFIN-HH / ELI-NP	ECT*	ENSAF			
PARTICIPANTS	K. Rusek A. Maj W. Trzaska	D. Ghita	J. Wambach G. Aarts				
ABSENTEES	M. Jeżabek	A. Krasznahorkay V. Zamfir		S. Harissopoulos			

## WORK PACKAGE PRESENTATIONS

TOPIC
<p><u>Introduction</u> See corresponding presentation. M.N. Harakeh reminds the present members of the role of the FCG, i.e. the coordination and harmonisation between the ENSAR2 research infrastructures and their PAC's. It is important to reach some integration at least in the procedures of submitting experimental proposals to the ENSAR2 RIs. He also reminds that the 2<sup>nd</sup> reporting period is approaching (end of February 2019, following the scheme 18 months/18 months/12 months). MoUs signed since last meeting with The Institute of Particle and Nuclear Studies, (KEK) and Centre for Nuclear Study (CNS), University of Tokyo in Japan, Tata Institute of Fundamental Research in India and Argonne National Laboratory in U.S.A.</p>
<p><u>GANIL</u> See corresponding presentation</p> <p>SPIRAL1 upgrade done (in operation after 5 years): 38mK, 28Mg, 15O, 15F, 14O beams (7,6 MeV/u, 105 pps)</p> <p>Strong decrease of the beam time in 2018 of SME and IRRSUD (4 times less as the beams for Nuclear Physics were more difficult) New PAC members mostly from Asia and US</p> <p>2019</p> <ul style="list-style-type: none"> <li>• 4 months of beam time + commissioning of SPIRAL2</li> <li>• MUST – transfer reactions SPIRAL1 ISOL beams</li> <li>• Physics of solids/materials</li> </ul> <p>2020 3 months + SPIRAL2 NFS (?) – it depends on safety clearance and how the LINAC will perform</p> <p>2022 S3 full integration of the equipment and beginning of tests</p>
<p><u>LNL-LNS</u> See corresponding presentation</p> <p>LNL (30% rejection factor of experimental proposals) &amp; LNS (PAC once a year) beam-time availability cyclotron: 400 BTU. SPES: low energy (no post-acceleration) in 2021.</p>
<p><u>ISOLDE</u> See corresponding presentation</p> <p>First online results from <math>^{28}\text{Mg}(d,p)^{29}\text{Mg}</math> from ISS solenoid; 100-keV resolution with inner ANL detectors Shutdown 2019 <math>\Rightarrow</math> April 2021 Next shutdown in 2024-25 Off-line RIB <math>^7\text{Be}</math>, <math>^{44}\text{Ti}</math>, Ra to be used in the experiments</p>
<p><u>JYFL</u> See corresponding presentation</p> <p>Success rate 73,2% of experimental proposals over the last 10 years</p>
<p><u>ALTO</u> See corresponding presentation</p> <p>1 <math>\mu\text{A}</math> of <math>^7\text{Li}</math> with new source from LNL 25% of the beam time for the companies, 2,6 M€ upgrade project</p>

GSI

See corresponding presentation

FAIR ready in 2025.

Phase 0: 118 days planned in 2018 and a similar amount in 2019. However, due to fire at UNILAC, no beam will be available for users in 2018. This schedule is moved to early 2019 and 2020.

Physics run March-April 2019 (3 weeks SHE, 8 days R3B, 5 days NUSTAR) + 2 engineering runs  
TNA funds to be spent next year.

November-December 2019: ESR and CRYRING commissioning.

KVI-CART

See corresponding presentation

Increased capabilities for HI beams for industry, new project defended last Friday for irradiation facility  
240h delivered out of 700h promised  
Only detector test.

NLC

See corresponding presentations

HIL and CCB are complementary.

CCB: cyclotron centre Bronowice (proton therapy) + fundamental physics

HIL: 2 cyclotrons (1 for radiopharma, not in TNA) – 2400 hours access. In 2017 and 2018 user support 21 k€ and 12 k€, respectively – there remains 13 k€ over (from 46 k€).

ECT\*

See corresponding presentation

IFIN-HH / ELI-NP

See corresponding presentation

Impact studies

See corresponding presentation

12 TNA involved.

December 15<sup>th</sup> 2018 – January 15<sup>th</sup> 2019: input on final report

Final version: end of January

MoU with non EU facilities

Problem with Amel Korichi going to Argonne (support not granted). Confusion over travel and local subsistence support.

Ask TNAs for the number of supports from and to MoU's countries.