

# SPES MED

Laboratori Nazionali di Legnaro – INFN

## Riunione della collaborazione

June 5<sup>th</sup>, 2025

# OdG

- Comunicazioni
- WPs: Milestones 2025
- Budget 2025
- Richieste budget 2026
- Prossimo incontro collaborazione
- Pagine web (?)
- Varie ed eventuali

# Comunicazioni

- Incontro con il direttore di LNL (4.6.25)  
problema autorizzazioni, si prolunga di fatto per un anno la fase di regime provvisorio (pre-esercizio) nel commissioning: non possiamo pubblicare le eventuali misure che facciamo a SPES  
  
a luglio misure di allineamento laser per tentare la fotoionizzazione dell'Al  
  
ad autunno – inverno tempo riservato alle misure con tape system e IRIS  
  
scarso interesse di utenti (e direttore) per il bersaglio in SiC
- Incontro in remoto con le referee: martedì 10 giugno ore 10
- Riunione CSN3 a Trieste 19-20 giugno

# WP1

2025

2026

2027

		Year 1				Year 2				Year 3			
		M3	M6	M9	M12	M15	M18	M21	M24	M27	M30	M33	M36
	<b>WP1 - Nuclear cross-section measurements</b>												
MS1.1	Report on cross-section measurements at SPES	→			●								
MS1.2	Report on cross-section measurements at ARRONAX	→			●								
MS1.3	Report on cross-section measurements at SPES					→			●				
MS1.4	Report on cross-section measurements at ARRONAX, CAS and i-Themba					→			●				
MS1.5	Report on cross-section measurements at SPES									→			●
MS1.6	Report on cross-section measurements at ARRONAX, CAS and i-Themba									→			●

# WP2

2025

2026

2027

WP2 - ISOL yield measurements		Timeline														
MS2.1	Report on testing and refinement of IRIS and tape system	→			●											
MS2.2	Report on ISOL transport and ionization efficiencies measured with stable beams	→			●											
MS2.3	Report on resonant laser studies of Mg photo-ionization schemes	→											●			
MS2.4	Report on yield measurements of Mg-28 and optimization of SiC targets							→					●			
MS2.5	Report on resonant laser studies of Cr and Ag photo-ionization schemes							→								●
MS2.6	Report on yield measurements of K-43 (and possibly Cr-51 and Ag-111) and optimization of TiC targets												→			●

# WP3

2025

2026

2027

WP3 - Models and simulations																
MS3.1	Report on cross-section, yields and purity modelling for Sc-47 production	→			●											
MS3.2	Report on cross-section, yields and purity modelling for Tb radioisotopes					→				●						
MS3.3	Report on cross-section, yield and purity modelling for Cu-67 (and possibly other theranostic nuclides)											→				●
MS3.4	Report on models and simulations for target release	→			●											
MS3.5	Report on models and simulations for photo-ionisation experiments	→											●			
MS3.6	Report on Monte Carlo simulations of ISOL in-target production					→										●

# Budget 2025

Bilancio 2025 > Globale > Gruppo III > Esperimento SPES\_MED > Riassuntivo assegnazioni

Sez. & Suf.	MISS				CON			ALTRICONS			TRA			SEM			PUB			MAN			INV			LIC-SW			APP			SPSERVIZI			TOTALE		
		Sj	Dot.	Ant.		Sj	Dot.	Ant.		Sj	Dot.	Ant.		Sj	Dot.	Ant.		Sj	Dot.	Ant.		Sj	Dot.	Ant.		Sj	Dot.	Ant.		Sj	Dot.	Ant.		Sj	Dot.	Ant.	
LNL	15.0				33.0												5.0							23.0										76			
	7.0	6.0			22.0												0.0							20.0										49.0	6.0		
MI	13.5								23.5				8.5				3.0				2.0													50.5			
	6.0	6.0							18.5				8.5				0.0				1.0													34.0	6.0		
PD	6.0				1.0																		12.0											19			
	2.0				0.0																		0.0											2.0			
PI	2.0																						5.5											7.5			
	2.0																						1.5											3.5			
PV	3.0																						8.0											11			
	1.0																						0.0											1.0			
TOTALE	39.5				34				23.5				8.5				8				2			48.5										164	0		
					39.5				34				23.5				0				8			48.5			0		0						164		
	18	12	0	0	22		0	0	18.5		0	0	8.5		0	0	0	0	0	0	1	0	0	21.5	0	0							89.5	12.0	0.0	0.0	
					30.0			22.0		18.5			8.5			0.0		0.0			1.0			21.5		0.0	0.0								101.5		

Referee: Maria Cristina Morone

Referee: Maria Giuseppina Bisogni

Nazionale: Emilio Mariotti

# Budget request 2025-6

Table 7. Financial request for each work package.

		Year 1	Year 2	Year 3	Total
		[k€]	[k€]	[k€]	[k€]
	<b>WP1 - Nuclear cross-section measurements (LNL, MI)</b>				
<b>EQUIPMENT (INV)</b>	Electrodeposition system - LNL	3	0	0	3
<b>CONSUMABLES</b>	Enriched material (Zn-70, Zn-68) and custom clearance - LNL	20	0	0	20
	Consumables for experiments - LNL	4	4	4	12
	Targets and custom clearance - MI	20	5	0	25
	Maintenance - MI	2	2	2	6
	Radioactive transport - MI	8.5	8.5	8	25
<b>TRAVELS</b>	Travels for experimental activity and meetings - LNL	12	21	6	39
	Travels for experimental activity - MI	13.5	18.5	21	53
<b>PUBLICATIONS</b>	Publication fees - LNL	5	5	5	15
	Publication fees - MI	3	3	3	9
	<b>TOTAL WP1</b>	<b>91</b>	<b>67</b>	<b>49</b>	<b>207</b>

# Budget request 2025-6

	WP2 - ISOL yield measurements (PI, LNL, PV, PD)				
<b>EQUIPMENT (INV)</b>	Computing machines - PI	3	0	0	3
	Computing machines - LNL	3	0	0	3
	Sigmathek modules - LNL	11	0	0	11
	Bosch profiles and accessories - LNL	3	0	0	3
	RS components - LNL	2	0	0	2
	Platform for IRIS maintenance - LNL	3	0	0	3
	Optical micrometer for INRiM - PV	6	0	0	6
<b>CONSUMABLES</b>	Laboratory equipment - PI	2	2	2	6
	Electrical components for IRIS - LNL	1	0	0	1
	Consumables for experiments - PD	1	1	1	3
<b>TRAVELS</b>	Travels for experimental activity and meetings - PI	2	5	5	12
	Travels for experimental activity and meetings - LNL	3	3	3	9
	Travels for experimental activity and meetings - PV	3	4	4	11
	Travels for experimental activity and meetings - PD	3	3	3	9
<b>PUBLICATIONS</b>	Publication fees - LNL	0	3	3	6
	<b>TOTAL WP2</b>	<b>46</b>	<b>21</b>	<b>21</b>	<b>88</b>

# Budget request 2025-6

	WP3 - Models and simulations (PD, PV)				
<b>EQUIPMENT (INV)</b>	CloudVeneto server - PD (and PV)	12	0	0	12
<b>TRAVELS</b>	Travels for meetings and exchange collaborations - PD	3	3	3	9
<b>PUBLICATIONS</b>	Publication fees - PD	2	2	2	6
	<b>TOTAL WP3</b>	<b>17</b>	<b>5</b>	<b>5</b>	<b>27</b>

**Prossimo incontro collaborazione**

# Page web

## **Varie ed eventuali**