

# JLAB12 Italy Collaboration Meeting

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LNF, DECEMBER 15, 2025

ALESSANDRA FILIPPI

09:00	<b>1 - welcome: stato ed attivita' JLAB12 2025</b> <i>Dr Alessandra Filippi</i>
	<b>7 - Dark Matter searches: stato progetto BDX</b> <i>Marco Battaglieri, Mariangela Bondi</i> <i>LNF ed.36 - Salvini, LNF</i> 09:15 - 09:55
10:00	<b>18 - analisi dati BDX-MINI e aggiornamento su applicazione metodi AI per analisi DM</b> <i>Marco Spreafico</i>
	<b>13 - Hall B equipment: aggiornamento stato RGH</b> <i>Marco Contalbrigo, Marco Mirazita</i>
	coffee break
11:00	<b>20 - MPD: From VME to Ethernet</b> <i>Fatima Bzeih, Marco Battaglieri</i>
	<b>14 - aggiornamento stato progetto Hi-Lumi</b> <i>Annalisa D'Angelo, Elena Sidoretti</i>
	<b>11 - presentazione proposta misura LNV in Hall C</b> <i>Alessandro Spatafora</i> <i>LNF ed.36 - Salvini, LNF</i> 11:25 - 12:10
12:00	<b>5 - Spettroscopia: Nuovi risultati di spettroscopia e analisi AI</b> <i>Dr Alessandro Pilloni, Giorgio Foti</i> <i>LNF ed.36 - Salvini, LNF</i> 12:10 - 12:40
	<b>17 - analisi dati CLAS12: RGK</b> <i>Chiara Ammendola, Lucilla Lanza</i>
13:00	<b>6 - progetto DDVCS: progetto DDVCS</b> <i>Mariangela Bondi</i> <i>LNF ed.36 - Salvini, LNF</i> 13:00 - 13:30
	lunch
14:00	<i>LNF ed.36 - Salvini, LNF</i> 13:30 - 14:45
	<b>2 - attivita' sala A/C: attivita' sala A: SBS</b> <i>Dr Evaristo Cisbari</i>
15:00	<b>10 - aggiornamento attivita' ipernuclei</b> <i>Guido Maria Urciuoli</i>
	<b>12 - Aggiornamento misura AVFF Hall A/C</b> <i>Roberto Perrino</i>
	coffee break
16:00	<b>16 - analisi dati CLAS12: analisi con bersaglio polarizzato</b> <i>Lorenzo Polizzi</i>
	<b>15 - analisi dati CLAS12: SIDIS with strangeness</b> <i>Simone Vallarino</i>
17:00	<b>21 - discussione: sottomissione domande per il town meeting</b>

Dark matter (BDX)

CLAS12-RGH

SRO project  
Hi-Lumi project

LFV proposal

spectroscopy

CLAS12 RGK

$\mu$ CLAS12

Hall A  
Hypernuclei  
AXVFF

CLAS12 RGC  
CLAS12 kaon SIDIS

Preparation for Town Hall meeting

## MESSAGE FROM THE DIRECTOR

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December 4, 2025

**SUBJECT:** Leadership Changes

Dear Colleagues,

I am writing to inform you of two leadership changes that are now effective.

### **Cynthia (Thia) Keppel, Associate Director for Experimental Nuclear Physics**

We are sharing with you that Thia, who has served as the associate director for the Experimental Nuclear Physics Division, is contemplating a new opportunity within the laboratory as a principal scientist. In this role, she will transition to an individual contributor position, allowing her to focus more deeply on scientific innovation.

Thia has identified special projects that align closely with our scientific mission and long-term goals.

Douglas Higinbotham will serve as the acting associate director for Experimental Nuclear Physics. Douglas, with a renowned nuclear physics career at Jefferson Lab for almost 25 years, has held the title of Experimental Nuclear Physics operations director for the past three years. He is a graduate of DOE's Strategic Lab Leadership Program and is an Oppenheimer Science and Energy Leadership Program Fellow. I have full confidence in Douglas' ability to step into this role and continue supporting the Experimental Nuclear Physics mission.

### **Andrei Seryi, Associate Director for Accelerator Operations**

Andrei, who served as director for Accelerator Operations, is contemplating a new opportunity within the laboratory as a principal scientist. In this role, Andrei will shift to an individual contributor position, allowing him to concentrate on specific scientific operations and strategy.

Mike Spata will assume the role of acting associate director for Accelerator Operations. Mike, currently the deputy associate director for accelerator operations for the past seven years, has been at Jefferson Lab for over 36 years. Also holding the distinguished title of Oppenheimer Fellow, Mike's extensive experience and proven track record in accelerator operations will be beneficial as he leads our accelerator operations team during this transition.

Jefferson Lab will continue its long tradition in nuclear physics excellence, as its central scientific mission, and we remain fully committed to achieving the highest standards in CEBAF reliability and impactful science in support of our user community and with projects like MOLLER and the Electron-Ion Collider.

Please join me in showing your support to Douglas and Mike while a national search is conducted to find permanent replacements for both leadership roles.

Thank you,

Jens  
Jefferson Lab Director

# Breaking news at the lab

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Town Hall on Thursday December 18<sup>th</sup> at 2pm (8pm Italy) with the Lab Director to

*“discuss issues of importance to the user community pertaining to the nuclear physics program at the lab, including the impact of the government shutdown, plans for the upcoming run schedule of CEBAF, and the general status of the lab.”*

Questions will be posed to the lab Director

Last session of today dedicated to elaborate on a set of requests (mostly done) and discuss our general position as Italian users' community

# Home business

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## Welcome to new PhD students:

- Chiara Ammendola, Romall
- Marco Filippini, Messina

## Welcome to INFN-undergraduate fellow

- Sofia Betto, Roma1

## New institutional appointments at JLAB

- Mariangela Bondi: JLUO board, member at large

# 2025 scientific production

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- CLAS/CLAS12: 13 published, + 1 in the pipeline (on arXiv, submitted)
- HPS paper on SIMPs, 2016 data: submitted to PRD, under review... almost there
  - Please remember, *especially* if a paper has among first authors somebody from INFN, to quote PROBES-RISE fundings in the acknowledgements (THIS IS IMPORTANT!!)
- Other experiments (DM, Hall A, hypernuclei – proceedings included): 8 + 2 (arXiv)
- Total: > 20 papers
  
- Long writeups of local contributions to JLAB projects available in the 2025 Status report (July 2025), all available on the JLAB12 INFN wiki
  
- Please local PI's remember to provide me the list of 2025 talks! Needed for PROBES final summary

# Next year's plan (as of today)

- PRAD data taking expected to start on March 13<sup>th</sup>
  - 10 people, 72 shifts (not formalized... not asked yet)
  - CLAS12 Collaboration meeting will happen on the same week
  - Prepare paperworks to start using BEYOND secondments
- Data taking “likely” to extend to end of august – then machine shutdown

Gruppo	# persone	# blocchi	# turni	Attività	Nomi
Bari			0		
Catania	1	2	8	turni (1x PRAD + 1x X17)	M. Bondi
Brescia	2	2	8	1+1 (1 blocco/pax)	V. Mascagna, L. Venturelli
Ferrara			0		
Genova	3	6	24	turni 3 e 3 (1 blocco/exp/pax)	M.Battaglieri, M.Spreafico, S.Vallarino
LNF			0		
LNS			0		
Roma1			0		
Roma2	3	6	24	turni (3 X17 +3 PradII)	A. D'Angelo, L. Lanza, E. Sidoretti,
Torino	1	2	8	turni (1x Prad +1x X17)	A. Filippi
		18	72		

# PROBES Accounting

unit	mani project(s)	2022	2023	2024	2025	2026	TOTAL	tot/unit	%
BA	SBS/AXFF	20	16	22	0		58	58	Bari 0.04
CT	CLAS12/BDX/HPS/SEC. BEAMS	30	54	16	30		130		
CT	CLAS12	15		16	24		55		
CT	SBS			19	17		36		
CT	BDX + SEC. BEAMS			63			63	269	Catania 0.17
FE	CLAS12	15		17	14		46		
FE	CLAS12	95	48		26		169		
FE	CLAS12	12	21	35	31		99		
FE	CLAS12			23	14		37		
FE	CLAS12				39		39	364	Ferrara 0.23
GE	CLAS12/BDX/HPS	61	72				133		
GE	CLAS12/BDX/HPS	12	32	39	30		113		
GE	CLAS12/BDX		30	62			92		
GE	BDX/ SEC. BEAMS		24				24		
GE	CLAS12			11	8		0		
GE					26		0	362	Genova 0.23
LNF	CLAS12	21	41		34		96		
LNF	CLAS12	33					33		
LNF	CLAS12	32					32		
LNF	CLAS12	23					23		
LNF/KEK					44		44	228	LNF 0.14
PV	CLAS12/BDX			15	22		37		
PV	CLAS12			11			0	37	Pavia 0.02
RM1	SBS				56		56		
RM1	SBS			24	31		55	111	Roma1 0.07
RM2	CLAS12/BDX		22	12			34		
RM2		15					0		
RM2	CLAS12			12	8		20	54	Roma2 0.03
TO	CLAS12/HPS/BDX		22	7	20		49		
TO/JPARC					43		43	92	Torino 0.06
								Gtotal	1575

- 30 INFN users benefitting from support for secondments
  - ~1570 secondment days in 4 years (~52 months)
  - Residuals available for full travels to JLAB until Feb 28, 2026
- 5 critical cases (not completing 30 minimum days by feb. 26), as of end nov. 2025
- with BEYOND: expected availability 50 months/4 y
  - BEYOND funds also for BNL (cover ePIC travels)

# “Social” outlook

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- activity of “dream team” in quiescence
  - Long time passed since last meeting
  - Activity needs to be revived
- new local web pages project... dormant, as well
  - templates set by Valerio with nice instructions, but need to be filled by one willing person (at least) per group
- We must take care of this and fulfill these (easy) tasks as early as possible
  - once it’s done, it’s there
  - Better missing than empty