

Founded from ERC in Horizon 2020 program (grant agreement 818744)







RUN5: status **Stefano Piacentini**

General Meeting

12/12/2024

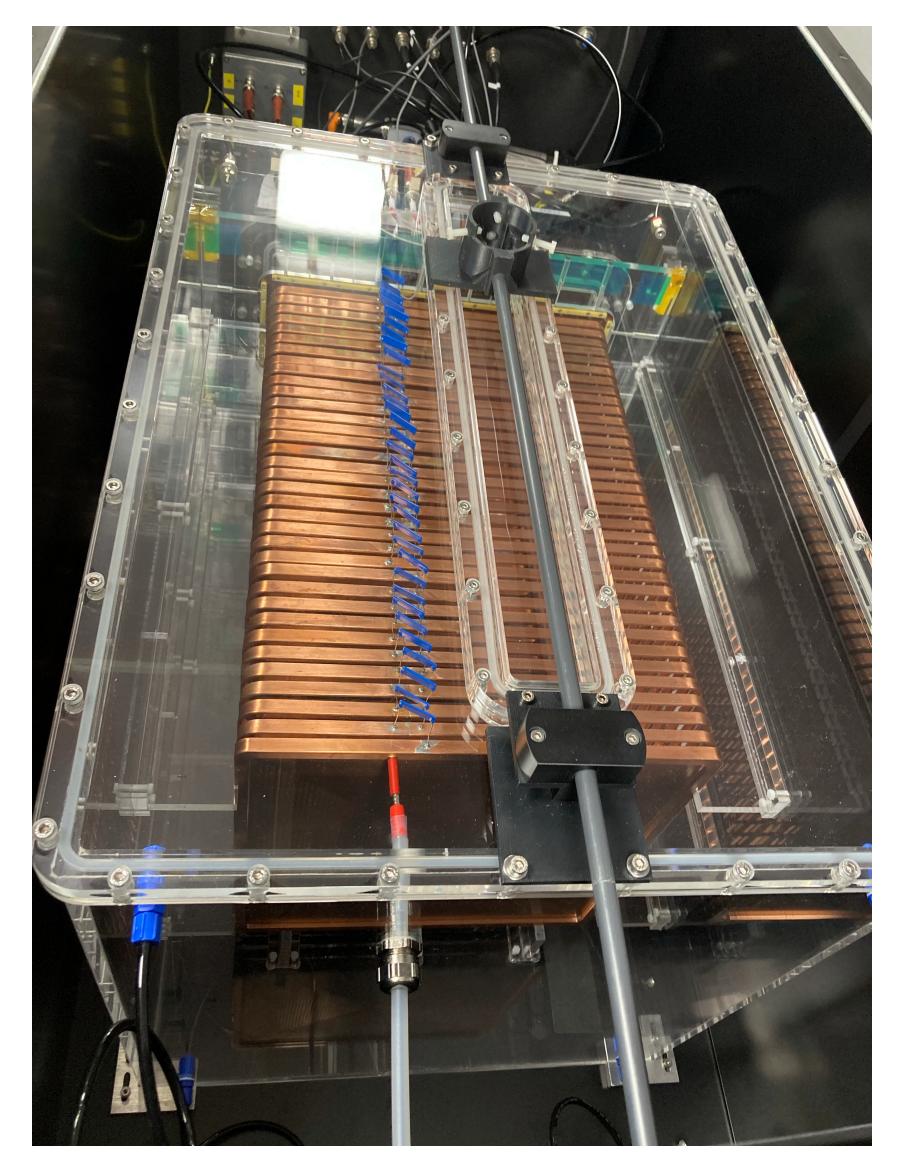








Istituto Nazionale di Fisica Nucleare





Plans for AmBe and end of 2024

A	В	С	D	E	F	G	н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	V
	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue
Activity	11/12	12/12	13/12	14/12	15/12	16/12	17/12	18/12	19/12	20/12	21/12	22/12	23/12	24/12	25/12	26/12	27/12	28/12	29/12	30/12	31/1:
AmBe run5 config																					
AmBe run4 config																					
AmBe removal																					
Removal of AMBe support																					
Run4 config BKG																					
BREAK - Ped																					

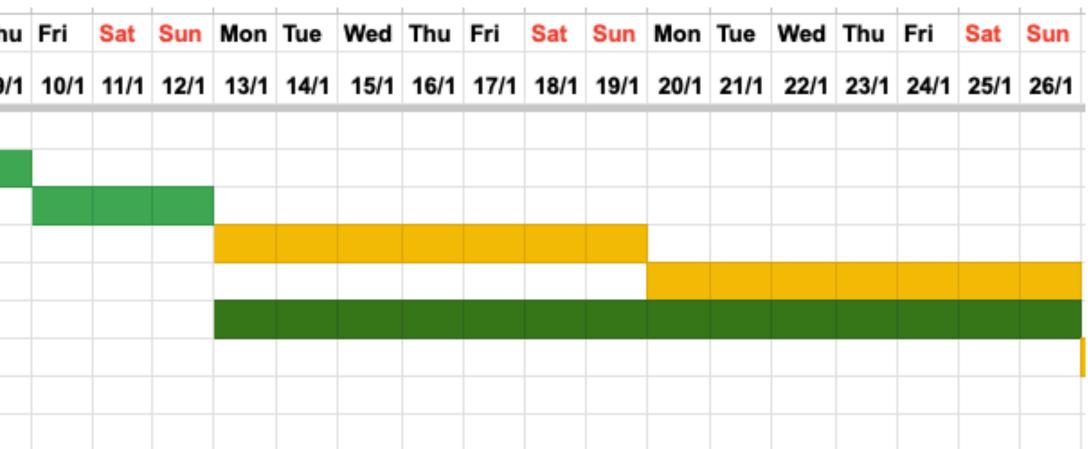
- Complete the low gain AmBe Campaign
- Collect 3 days of AmBe Campaign at high gain before the decommissioning of the source
- Needed 4 days of high gain Bkg data
- Collect pedestal data during the winter break [RM1]

this date

Tests in 2025

	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu
Activity	1/1	2/1	3/1	4/1	5/1	6/1	7/1	8/1	9/'
BREAK - Ped [RM1]									
Giorgio's scan [24h] [LNF]									
Pietro's scan + Data at 5 GS [24h] [LNF+RM3]									
Rubidium [GSSI]									
Quest [GSSI]									
Filters [RM1]									
NID [GSSI]									
Premixed bottles [48h] [RM1]									
Gas Recovery [RM1]									

- Pietro [LNF + RM3]
- Collect data at 5 GS/s for studies regarding our temporal resolution [LNF]
- Test our system with pre-mixed He:CF4 bottles (a couple of days foreseen to restore a good gas quality) [RM1]

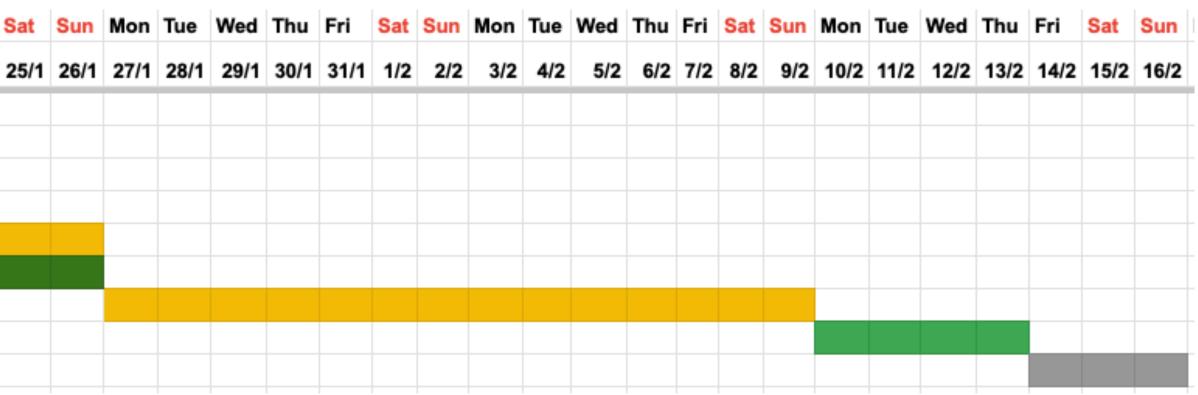


• Start with the scans in z, VGEM, DRIFT, etc. required by Giorgio and

Tests in 2025

	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	:
Activity	13/1	14/1	15/1	16/1	17/1	18/1	19/1	20/1	21/1	22/1	23/1	24/1	:
BREAK - Ped [RM1]													
Giorgio's scan [24h] [LNF]													
Pietro's scan + Data at 5 GS [24h] [LNF+RM3]													
Rubidium [GSSI]													
Quest [GSSI]													
Filters [RM1]													
NID [GSSI]													
Premixed bottles [48h] [RM1]													
Gas Recovery [RM1]													

- Installation of the rubidium source in sight of its usage in CYGNO-04 [GSSI]
- Data collection using the Quest in sight of its usage in CYGNO-04 [GSSI]
 - This will also be the occasion to provide reasonable pedestal runs to the Brazilian group with the Quest [GSSI]
- behave with SF6?) [GSSI]
- Test new filters for the regulation of the gas quality [RM1]



• Test negative ion drift operation in LIME with SF6. Left as latest test because potentially dangerous for GEMs, to be evaluated the impact on the gas system (e.g. how do filters)