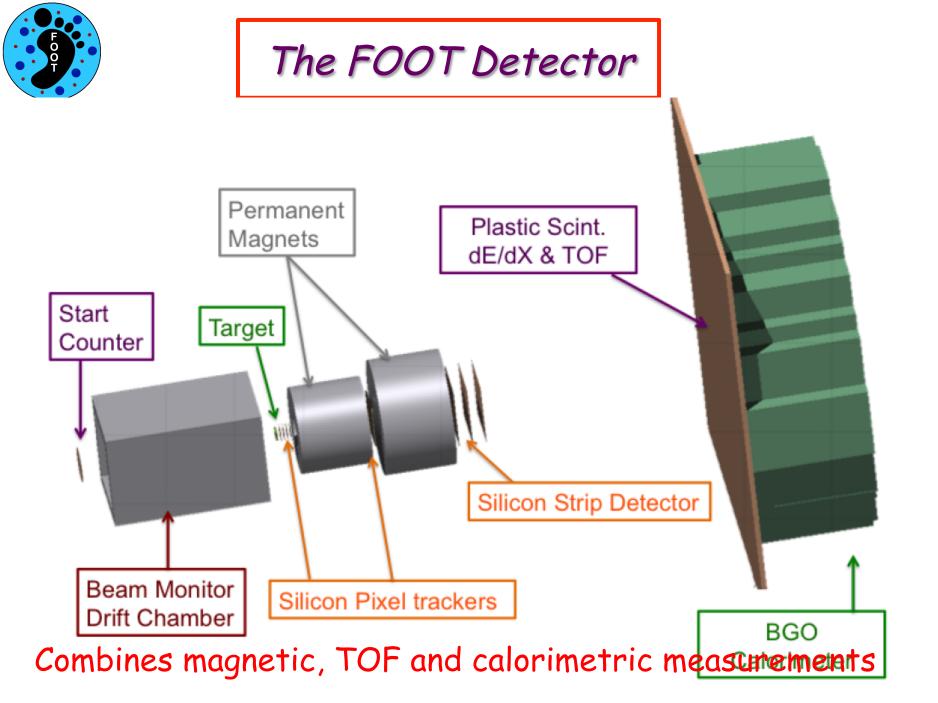


General updates/intro on FOOT

Vincenzo Patera

5 Settembre 2017 - La Sapienza - Roma





- Milestones 2017 fulfilled, last ongoing (november)
- Detector design frozen (See CDR), with last new entry of MicroStrip Detector
- Huge test beam activity within 2017: twice @Trento, @LNS, ongoing @HIT at November
- Calorimeter crystal procurement still open: L3 source uncertain, PADME ?, production should start in 2018
- CDR will be published on Archive



Extended from first proposal in May 2016. Now the Radio Protection in Space (RPS) has a large impact:

- Target frag: ¹⁶O, ¹²C on C, C₂H₄ @ 200 MeV/u
- Projectile frag: ¹⁶O,¹²C on C, C₂H₄, PMMA @ 350 MeV/u
- Projectile Frag: ⁴He on C, C₂H₄, PMMA @ 350 MeV/u
- RPS: ¹⁶O,¹²C,⁴He on C, C₂H₄ @ 700 MeV/u

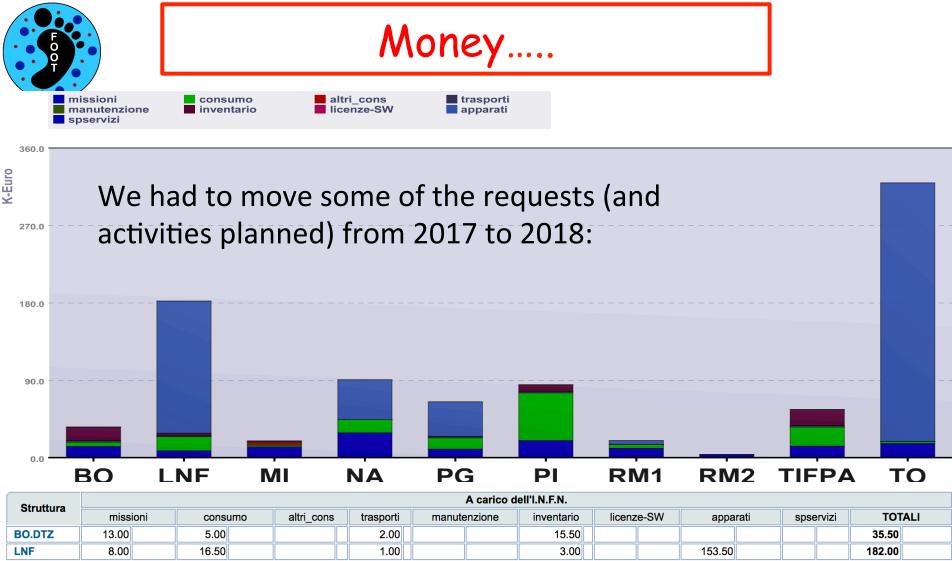
All this items are complementary addressed by electronic (${\rm FOOT}_{\rm el}$) and emulsion (${\rm FOOT}_{\rm em}$) setup.



FOOT People

FTE remained ~ the same from 2017

sezione	FTE	persone	FTE/persona			
Bologna (DTZ)	2	10	0.2			
LNF	2	5	0.4			
Milano	2.2	4	0.55			
Napoli	5.5	9	0.61			
Perugia	1.4	5	0.28			
Pisa	4.3	9	0.48			
Roma I	5.2	8	0.65			
Roma II	1	2	0.5			
TIFPA	2.7	7	0.38			
Torino	3.4	9	0.38			
FOOT	27.5	68	0.4			



												/L	 	
BO.DTZ	13.00		5.00			2.00		15.50					35.50	
LNF	8.00		16.50			1.00		3.00		153.50			182.00	
MI	6.00	6.50	2.00		3.50	1.50							13.00	6.50
NA	17.50	11.50	15.00							46.50			79.00	11.50
PG	10.00		8.00	5.00		2.00				25.00	15.00		45.00	20.00
PI	20.00		55.00			2.00		7.50					84.50	
RM1	11.00		4.50							4.50			20.00	
RM2	3.50												3.50	
TIFPA	5.50	8.00	8.00	14.00		2.00		18.50					34.00	22.00
ТО	16.50		2.50							300.00			319.00	
Totali	111.00	26.00	116.50	19.00	3.50	10.50		44.50		529.50	15.00	1	815.50	60.00



- Summer 2018: Data taking of the FOOT_{em} setup at Heidelberg. First contact with HIT on going, official beam time request after next CSN3. C/O beam 200-350 MeV/u
- Summer 2019: Data taking of the FOOT_{el} setup at GSI (wit partial calo?). Already applied for beam time: ¹²C, ⁴He on C, C₂H₄ target at 200-800 MeV/u. Application for summer 2019 will be done also via ESA call (sept..)
- Summer 2020: HIT complete FOOT_{el} setup data taking
- Test beam activity during all 2018/2019