

Ferrara Group:

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P. Lenisa	Ass.	20%
G. Ciullo	Ass.	20%
F. Spizzo	Ass.	80%
L. Barion	Post. Doc.	70%
A. Movsisyan	Post. Doc.	100%
L. Pappalardo	Post. Doc.	20%
M. Turisini	PhD	100%
I. Balossino	PhD	100%
A. Drago	Ass.	20%
FTE		~ 6
M. Statera	Tec. Ass.	
R. Malaguti	Tec. INFN	
S. Squerzanti	Tec. INFN	

2017 Activity:

CLAS6 Analysis:

DVCS xsec from e16/e1f

CLAS12 Hardware:

RICH:

Project Coordination

FE Electronics Validation

Aerogel Characterization

Mirror Characterization

SiPM Study for Single-Photon Detection

[RICH Installation](#)

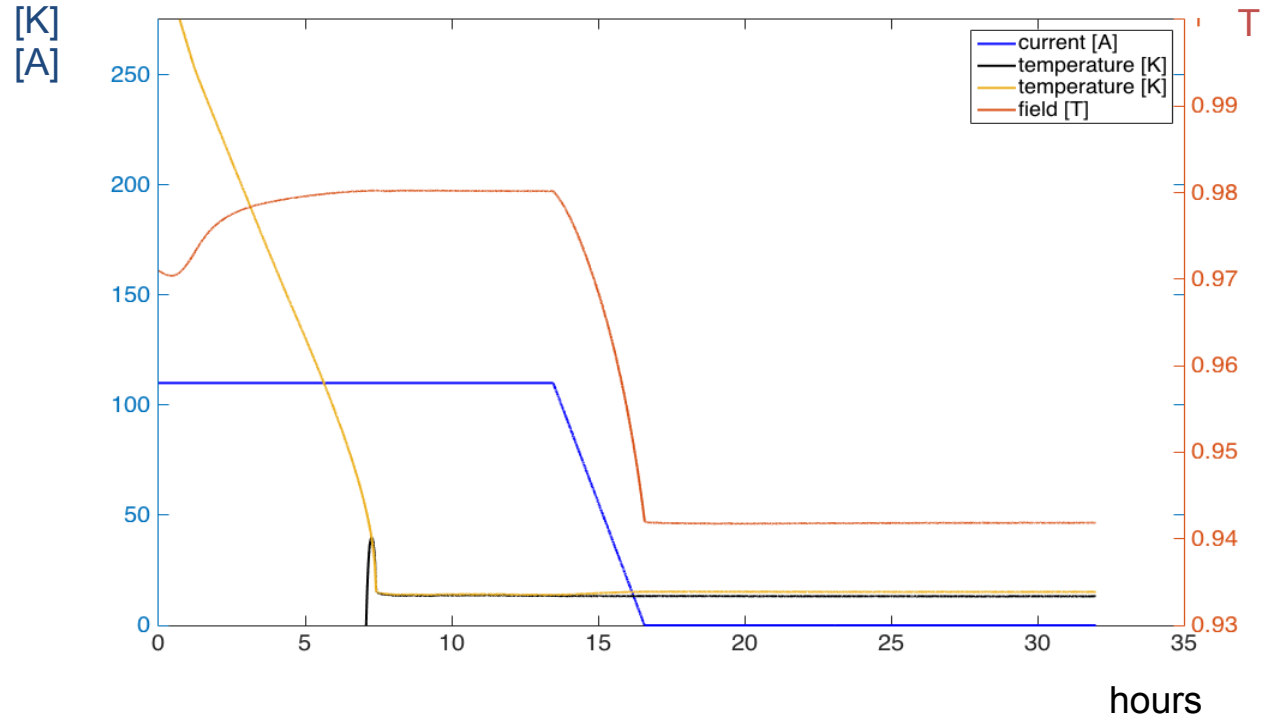
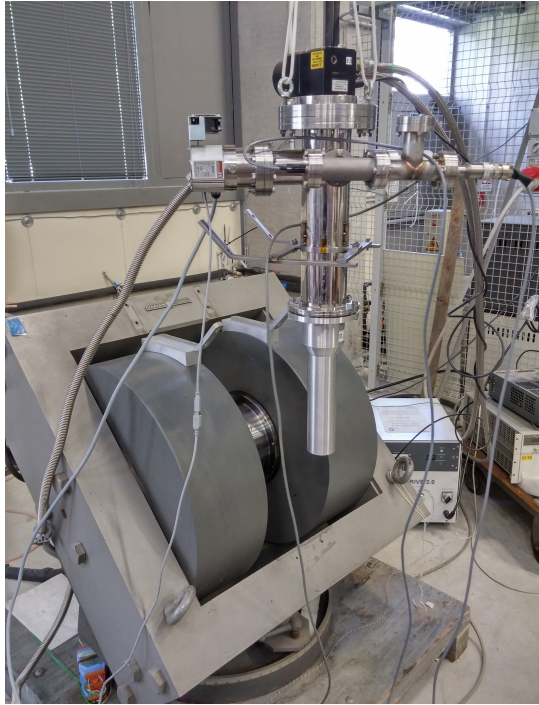
HD-ice:

Holding Magnet Configuration

[Test-beam at JLab Irradiation Facility](#)

MgB₂ Target Magnet

Test bench @ Ferrara



Magnetization test @ 14 T

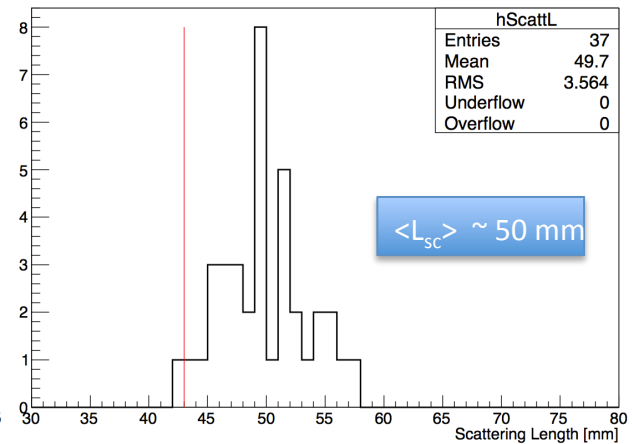
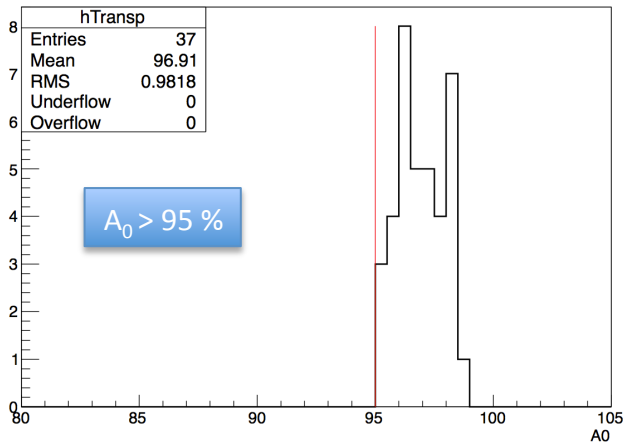
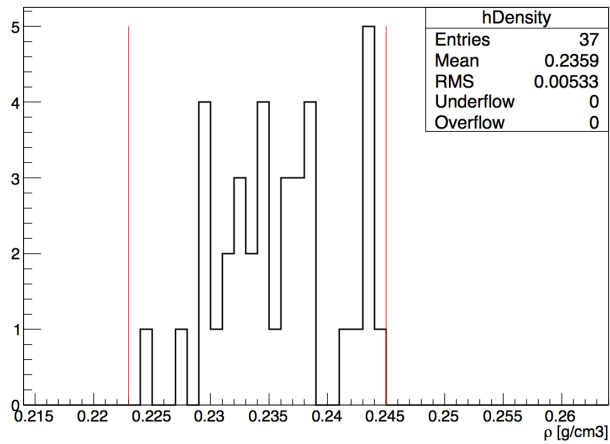
- ✓ Dipole field obtained from a solenoid
- ✓ High efficiency
- ✓ Negligible degradation with time (~ month)

Production Test

- ✓ Surface and edge defects
- ✓ Removable with mechanical post-processing



Aerogel



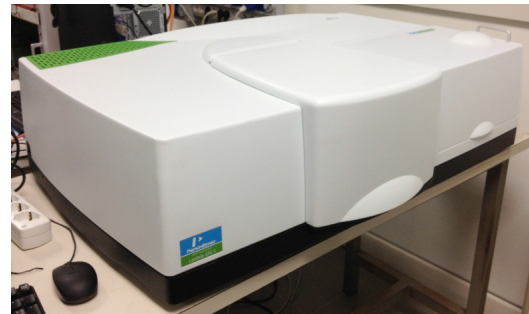
All tiles are measured at the production site (Novosibirsk) before delivery approval.

Acceptance tests at JLab and CUA.
Stress tests and optical study at Ferrara.

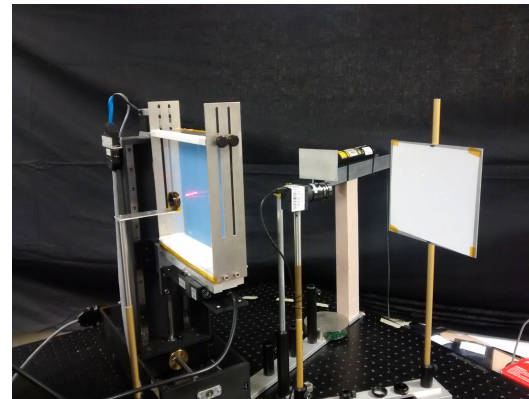
3 cm layers:

Production tiles fulfill specifications
Tile delivery proceeds steadily
36 tiles out of foreseen 72 approved

Next: start 2cm layer production

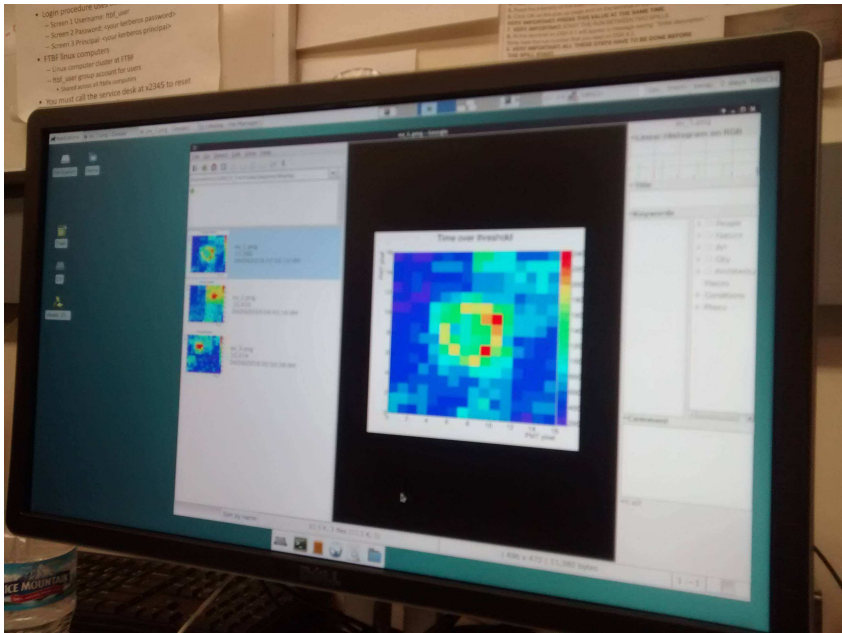
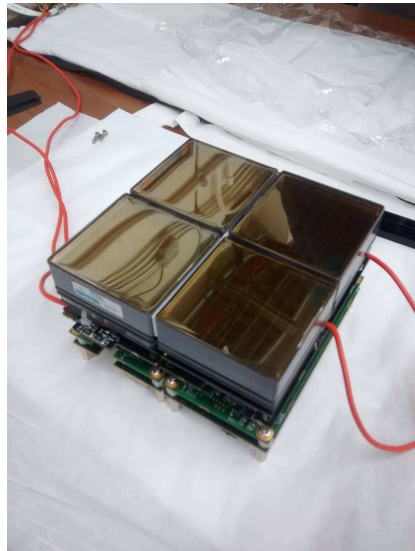
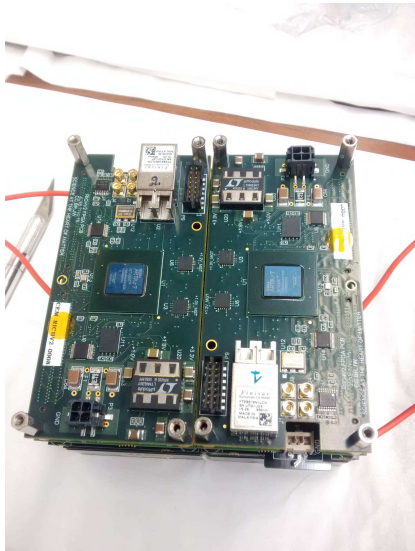


Same spectrophotometer with large sample compartment available @ FE and CUA.



Laser bench @ FE for specific light propagation
Tests (FS, double passage)

RICH Electronics



Asics+Adapter

- Pre-production done
- Stand-alone validation done
- All MAROC3A chips delivered
- Production started

Successfully Test-Beam @ Fermilab EIC R&D

Next (FE):

- Complete production before summer
- Acceptance, characterization, calibration
- Update for new chip package

Ferrara Group:

Aerogel	80	1 st priority
Hdice	20	Test Hdice (1 st)
	30	Test MgB ₂ (2 nd)

Missioni	80
Consumo	5
Trasporti	8
Inventario	10 (lettore sonde Hall)