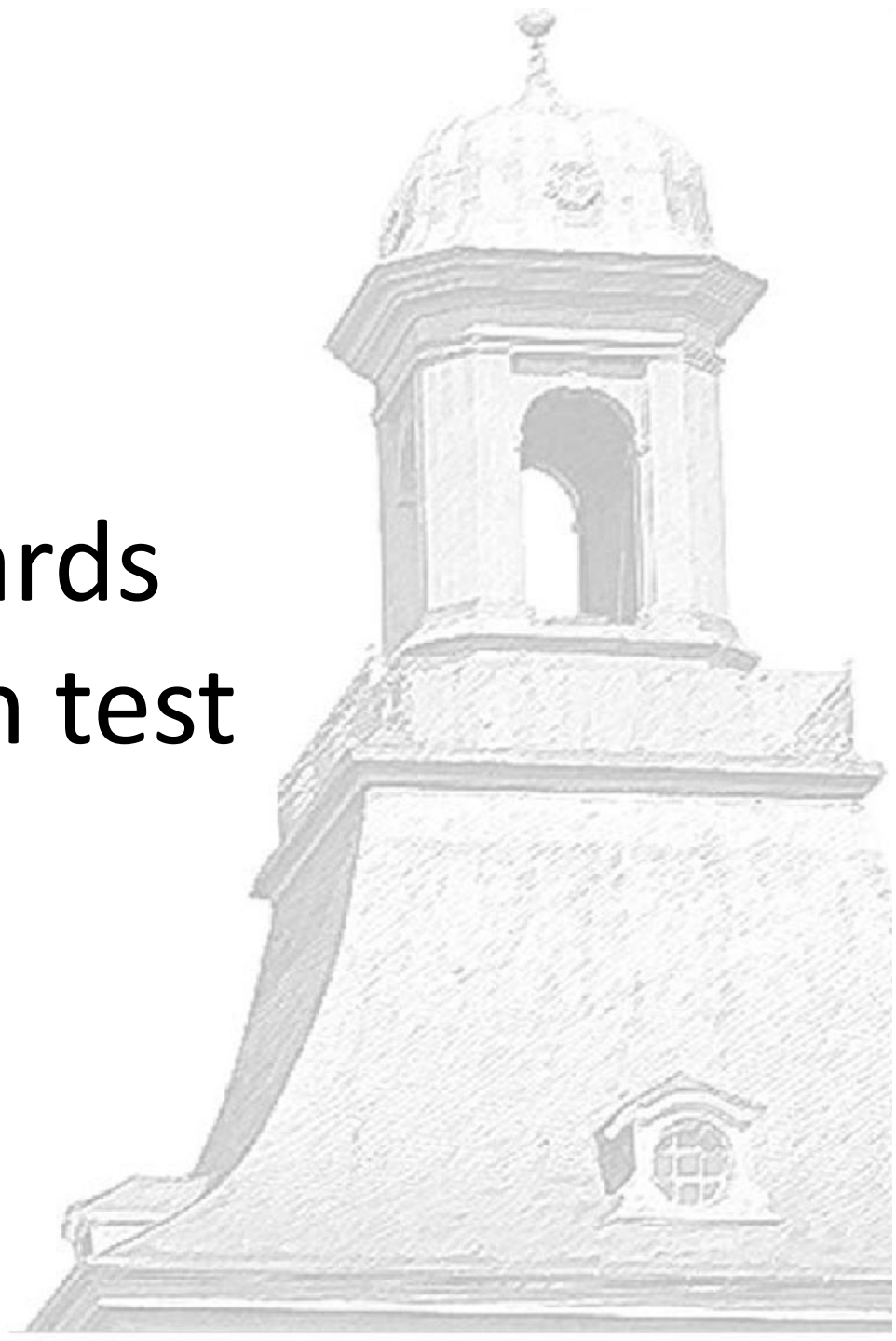




Preparations towards the combined beam test

C. Marinas and the DESY Group



- VXD common test beam in January 2014
- Small octant (piece of cake) of the **final** detectors
(2 PXD + 4 SVD) single module layers
- Final detectors including cooling, DAQ, slow control, *pocket* HLT, DatCon, PS, ...
- Illumination with (up to) 6 GeV e^- at DESY under solenoid magnetic field (PCMAG)

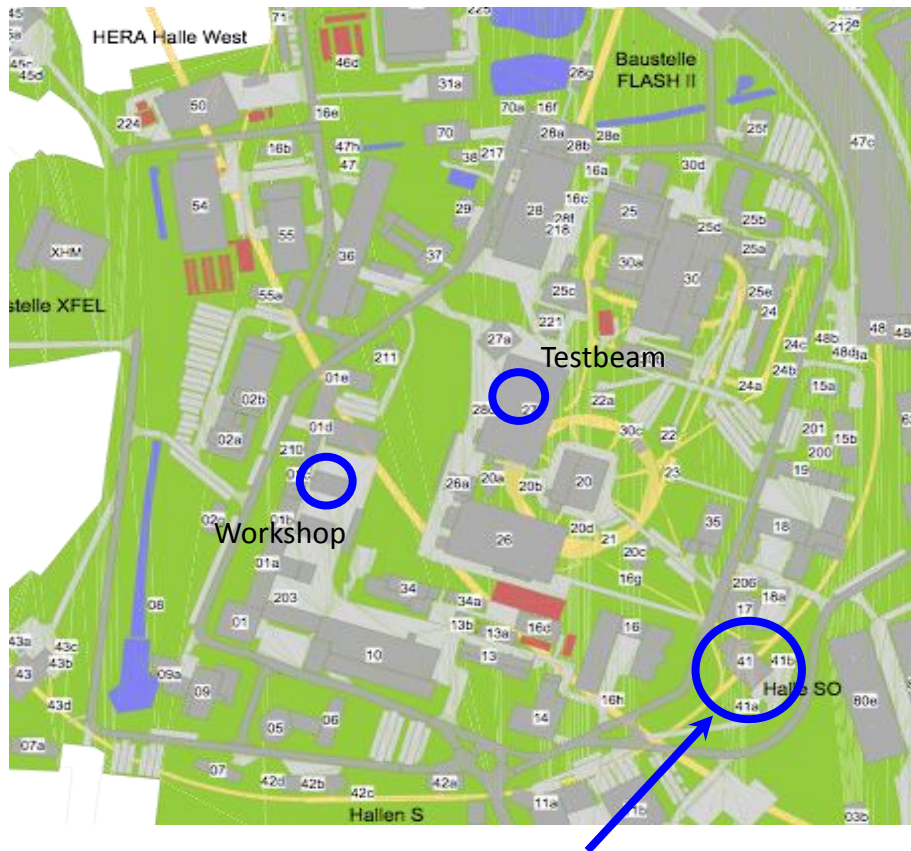
Belle II VXD New schedule

- 4 Weeks, starting in January 2014
- Start the installation in the experimental area in September 2013, using the machine shutdown (3.5 months)
- If no additional delays, this is optimal for our goals
- Even before September, there is a lab for tests (MARCO, DAQ, ...) in TASSO Hall

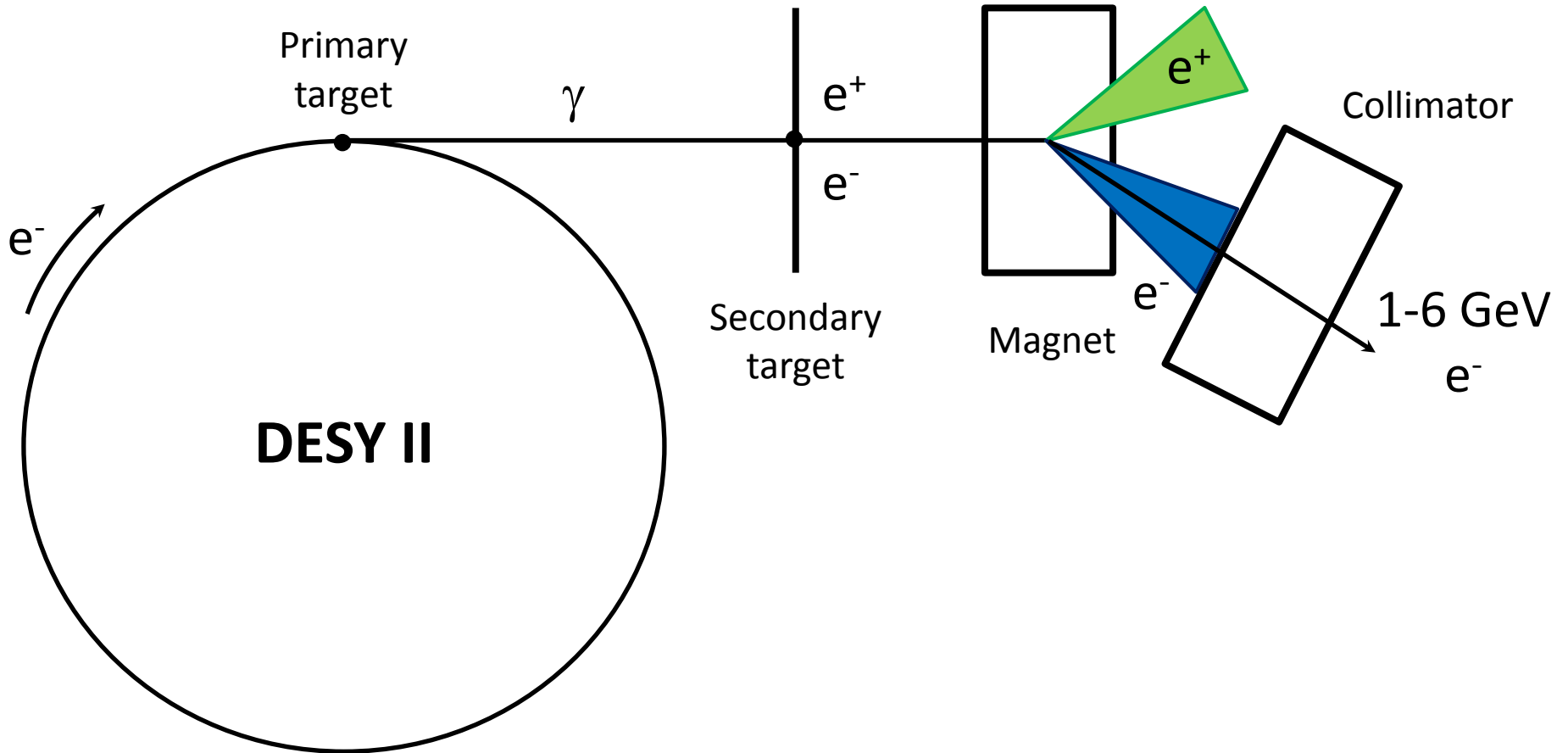
SHUTDOWN 36-52							T24/1
6-Jan-14	2		FCAL	---	---	CALICE AHCAL	Belle II VXD
13-Jan-13	3		FCAL	---	---	CALICE AHCAL	Belle II VXD
20-Jan-13	4		SBS GEM	---	APIX 3D		Belle II VXD
27-Jan-13	5		SBS GEM	---	DIAPIX		Belle II VXD
3-Feb-14	6		LHCb VELO	---			LorAngle
10-Feb-13	7		LHCb VELO	---			---
	8						
	9						
	10						

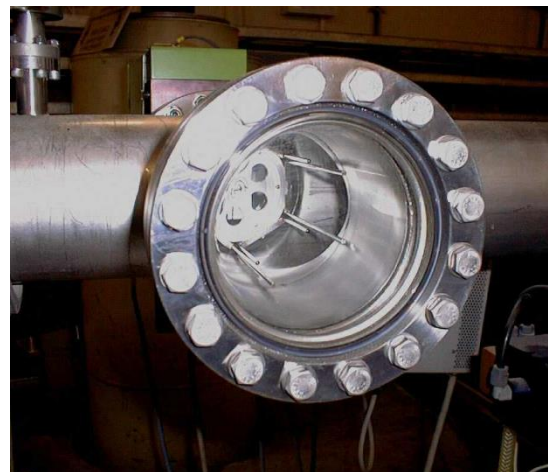
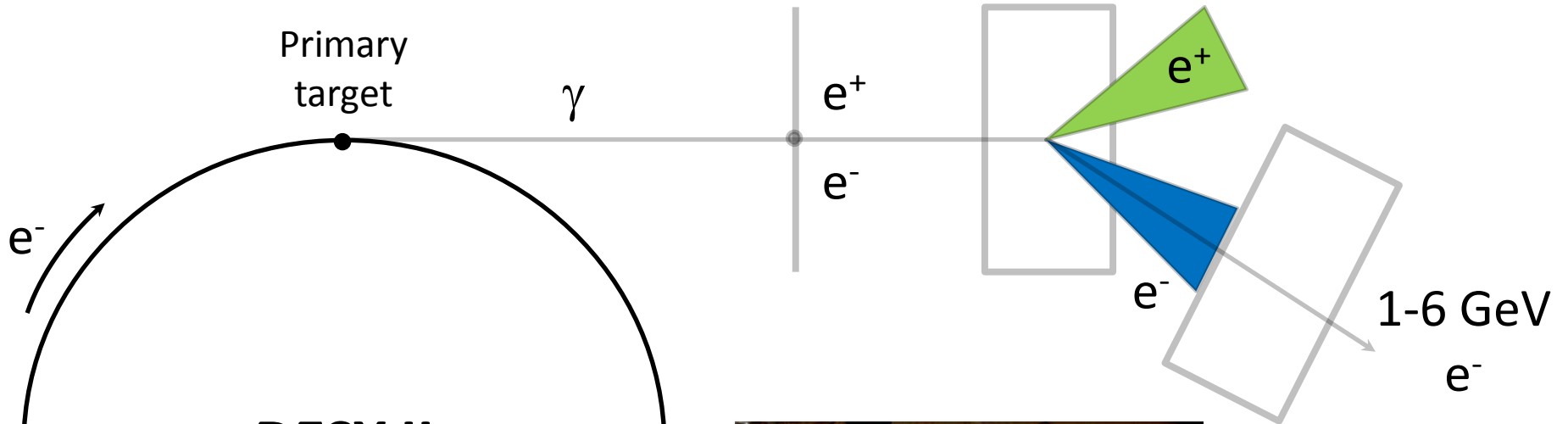
Special thanks to the DESY test beam coordinators (I. Gregor, N. Meyners, M. Stanitzki)

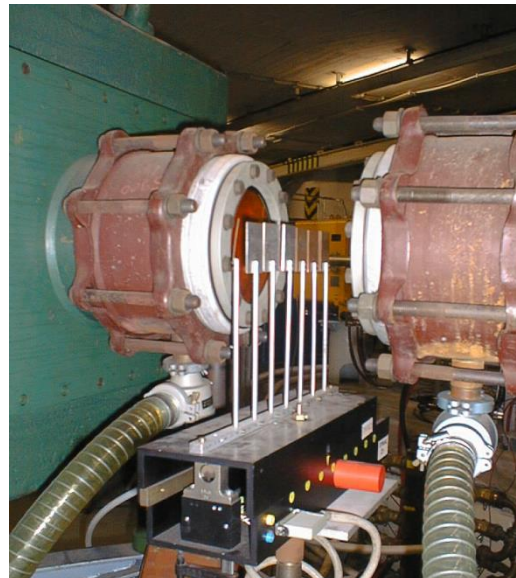
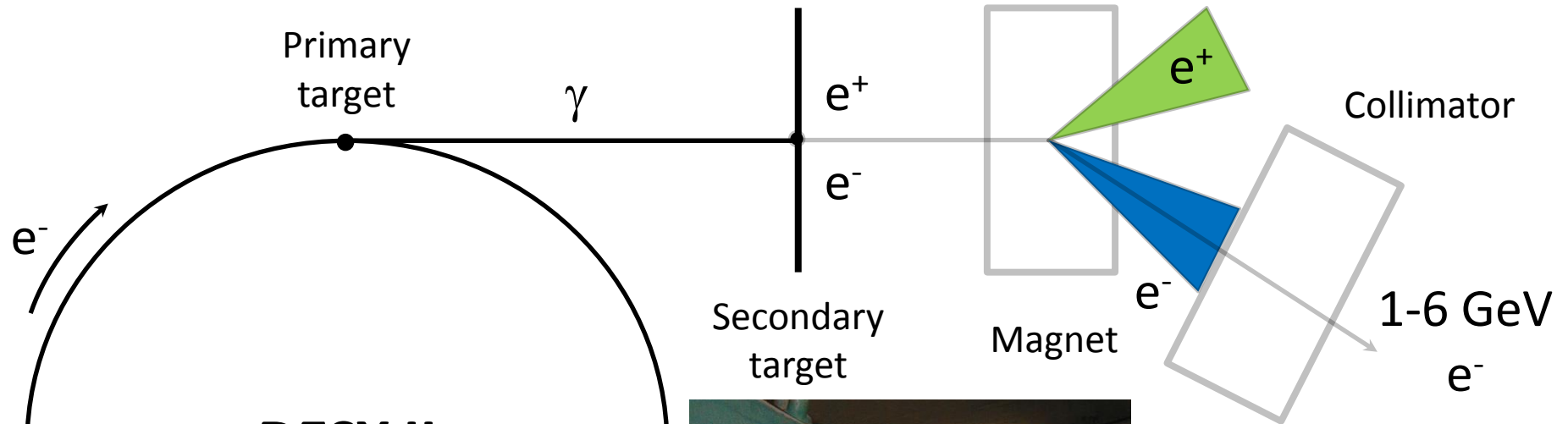
Lab Space for Assembly and Test

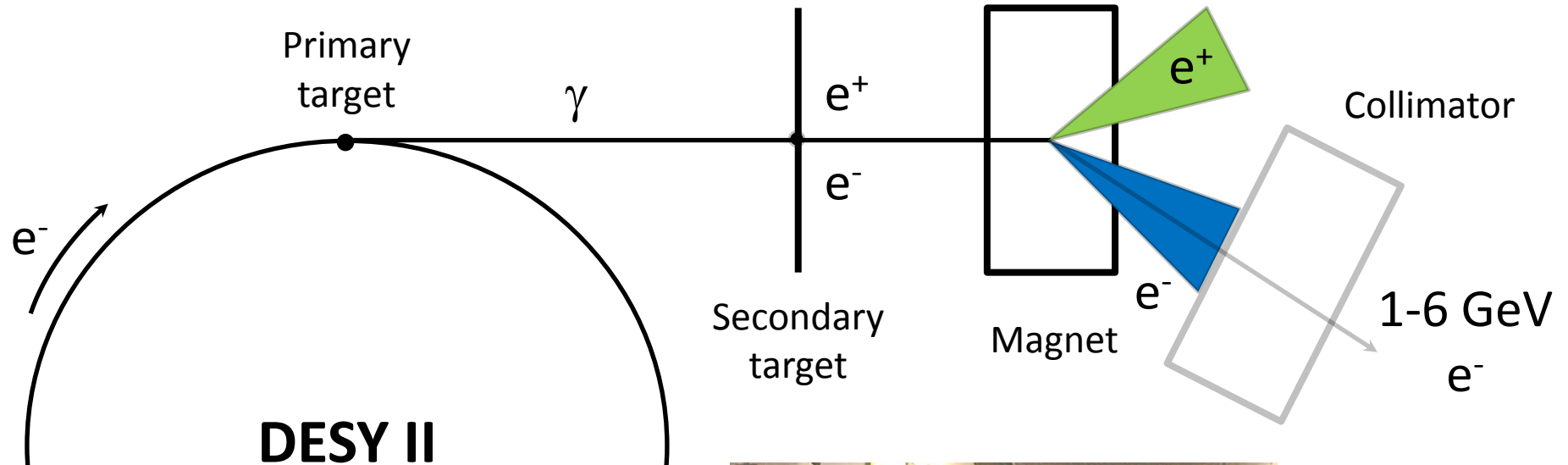


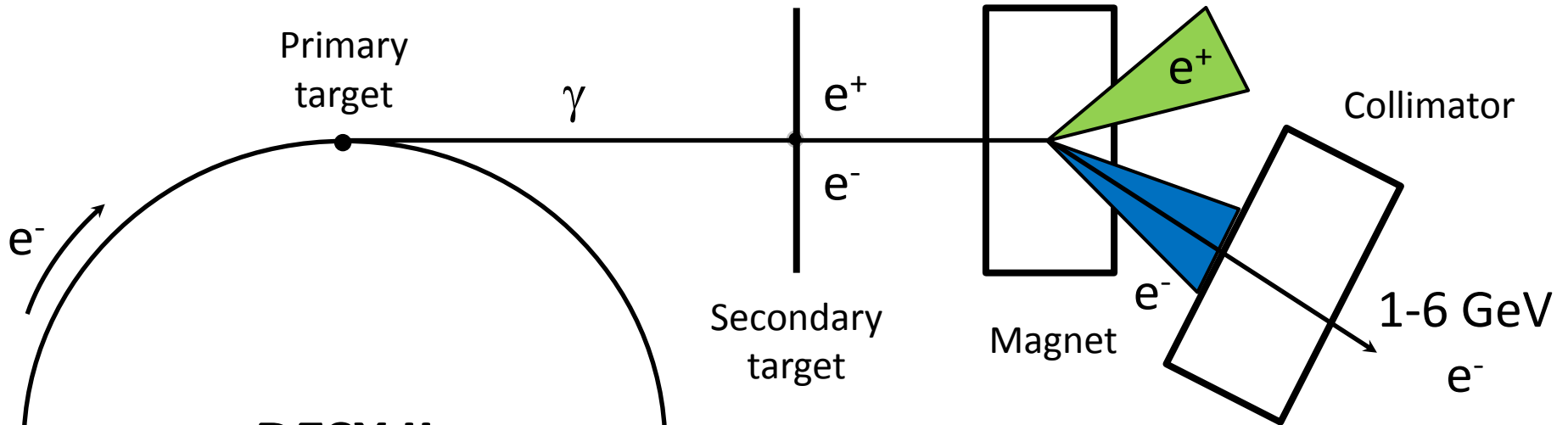
- Free space in PETRA-Hall SO (TASSO)
- Mobile clean room. Two compartments
 - DAQ setup
 - MARCO + thermal mockup
 - need to equip with CO₂ alarm system



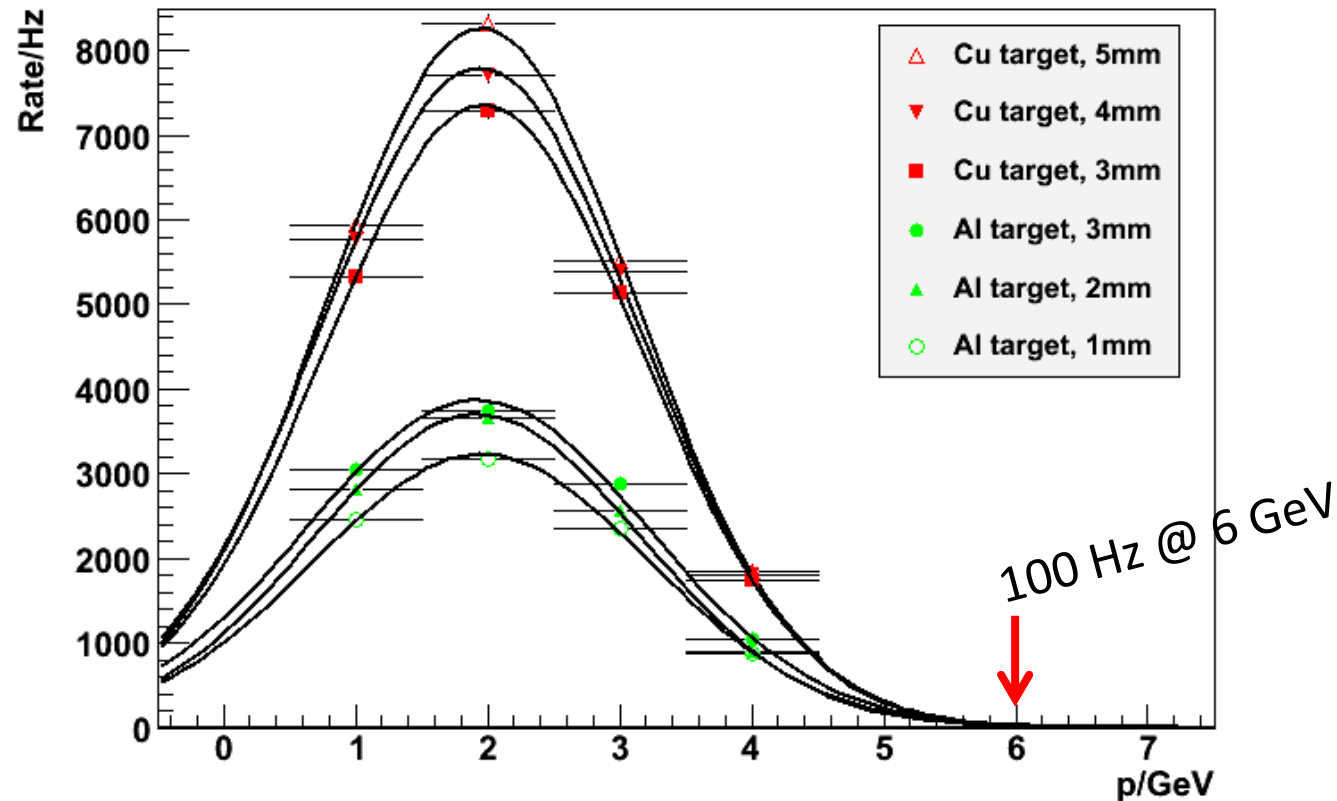


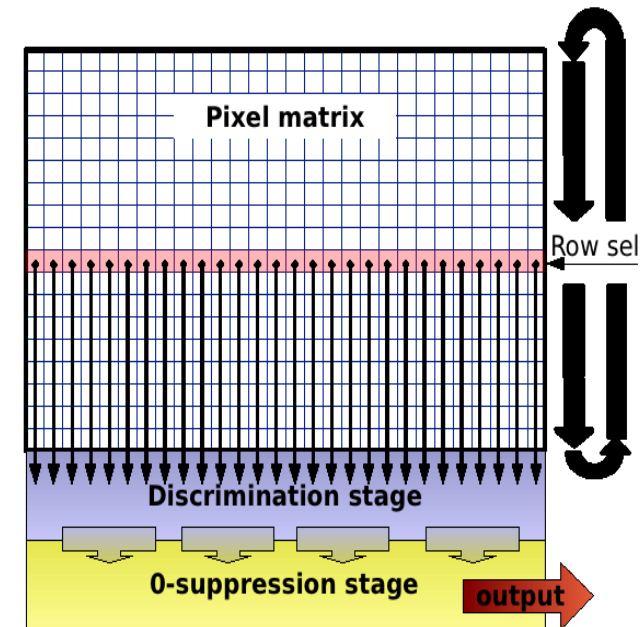
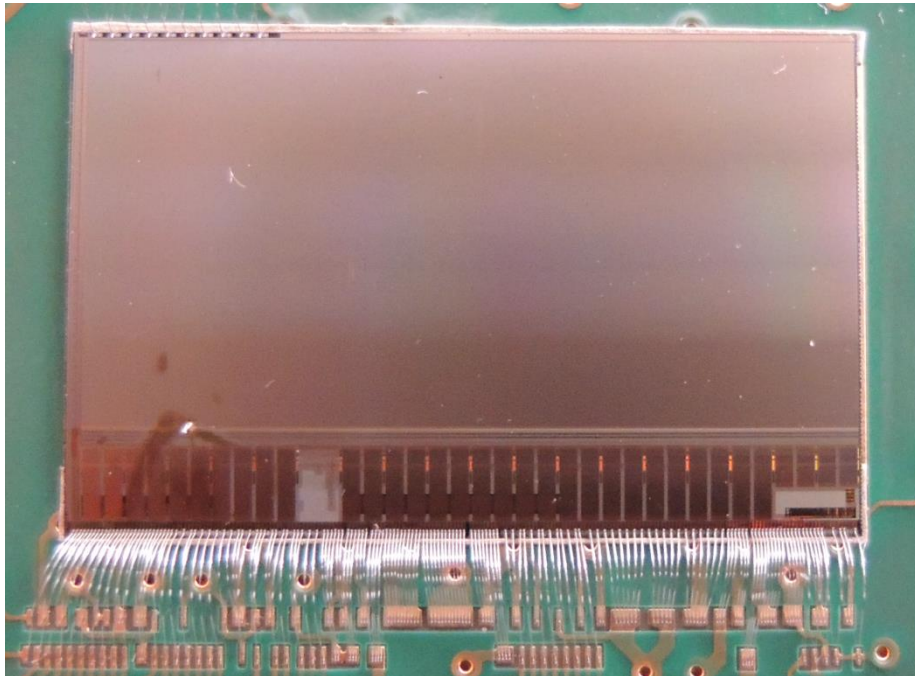






- e^- spectrum up to 6 GeV
- Energy spread $\sim 5\%$
- Divergence of ~ 2 mrad

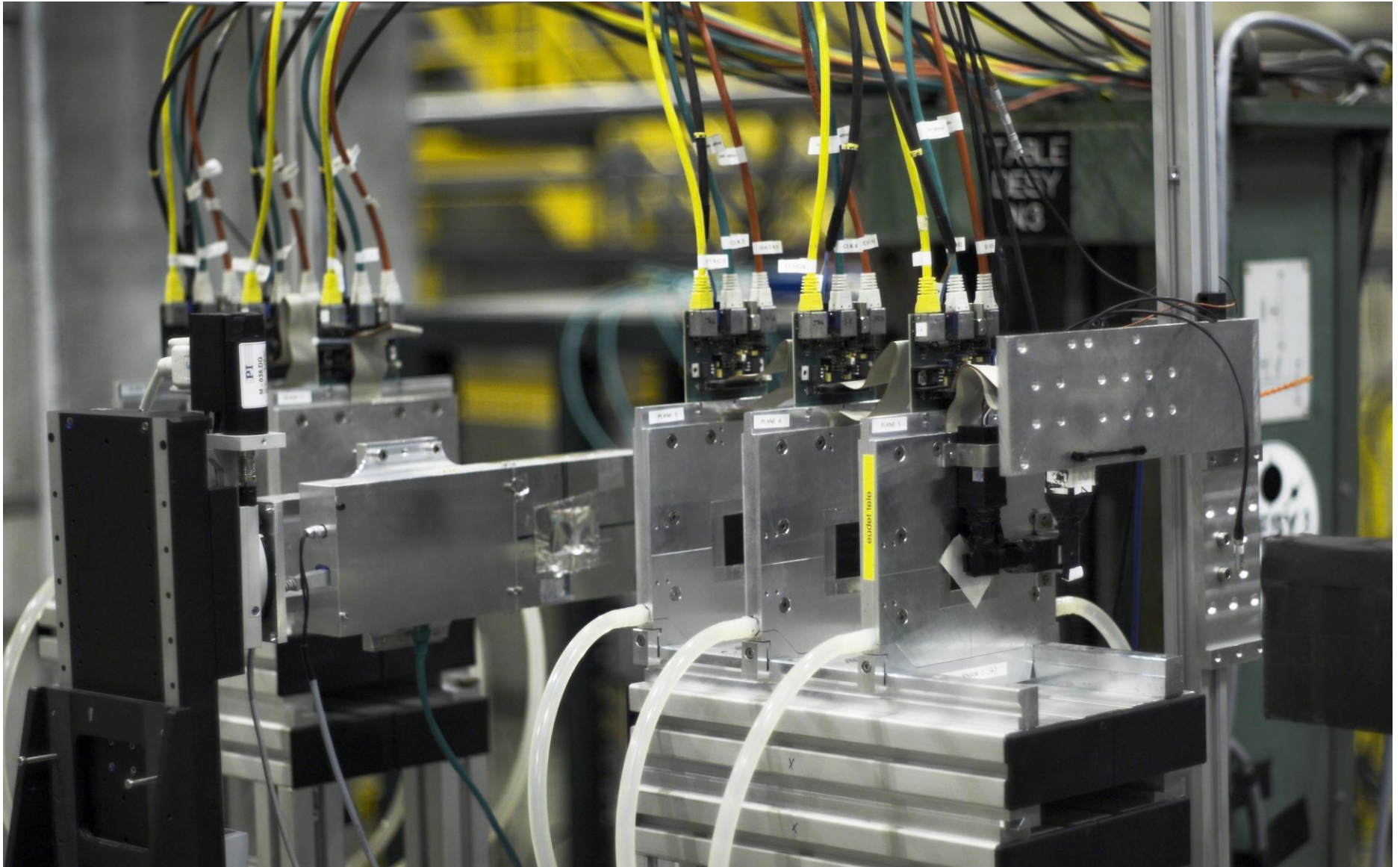


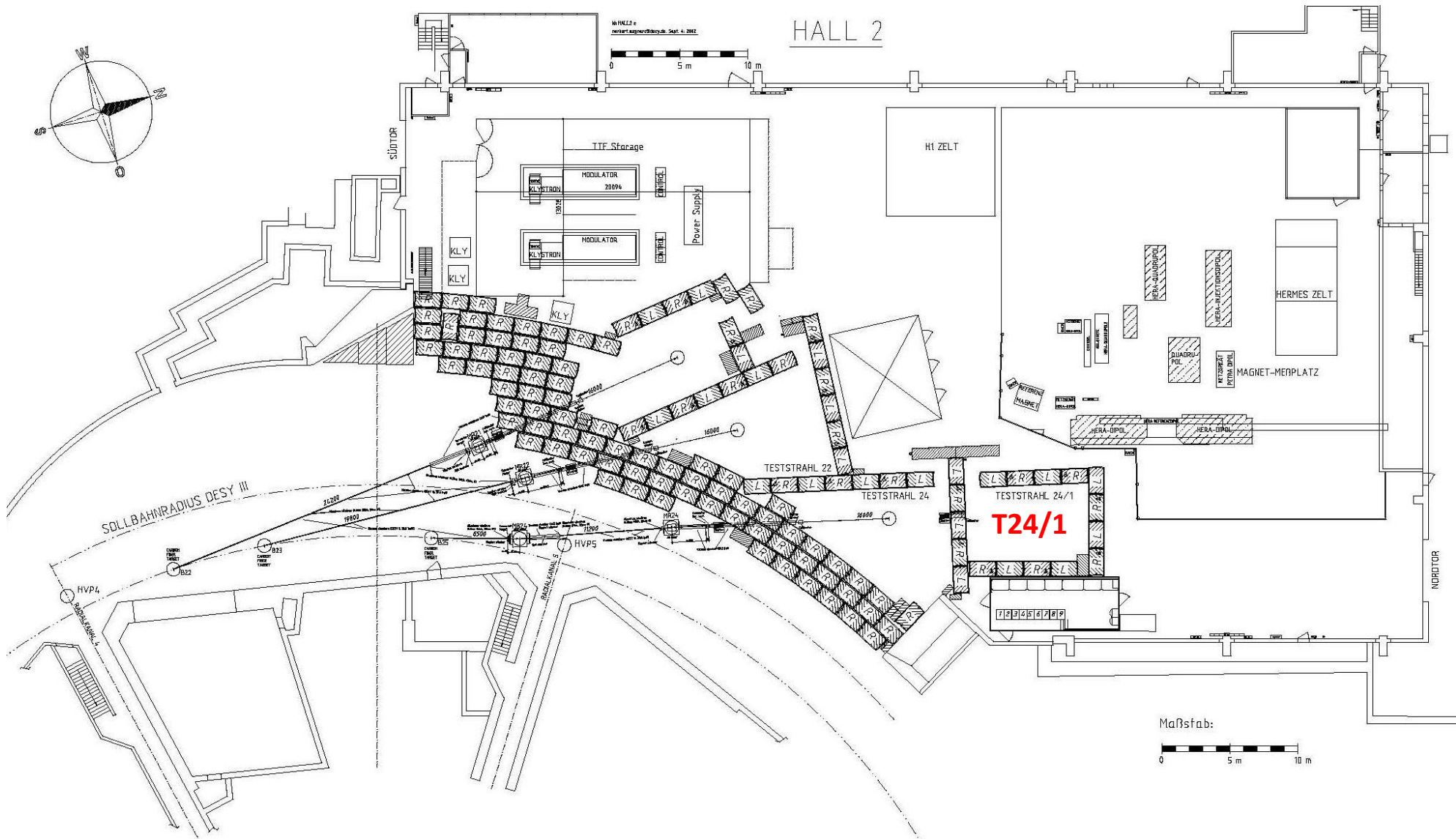


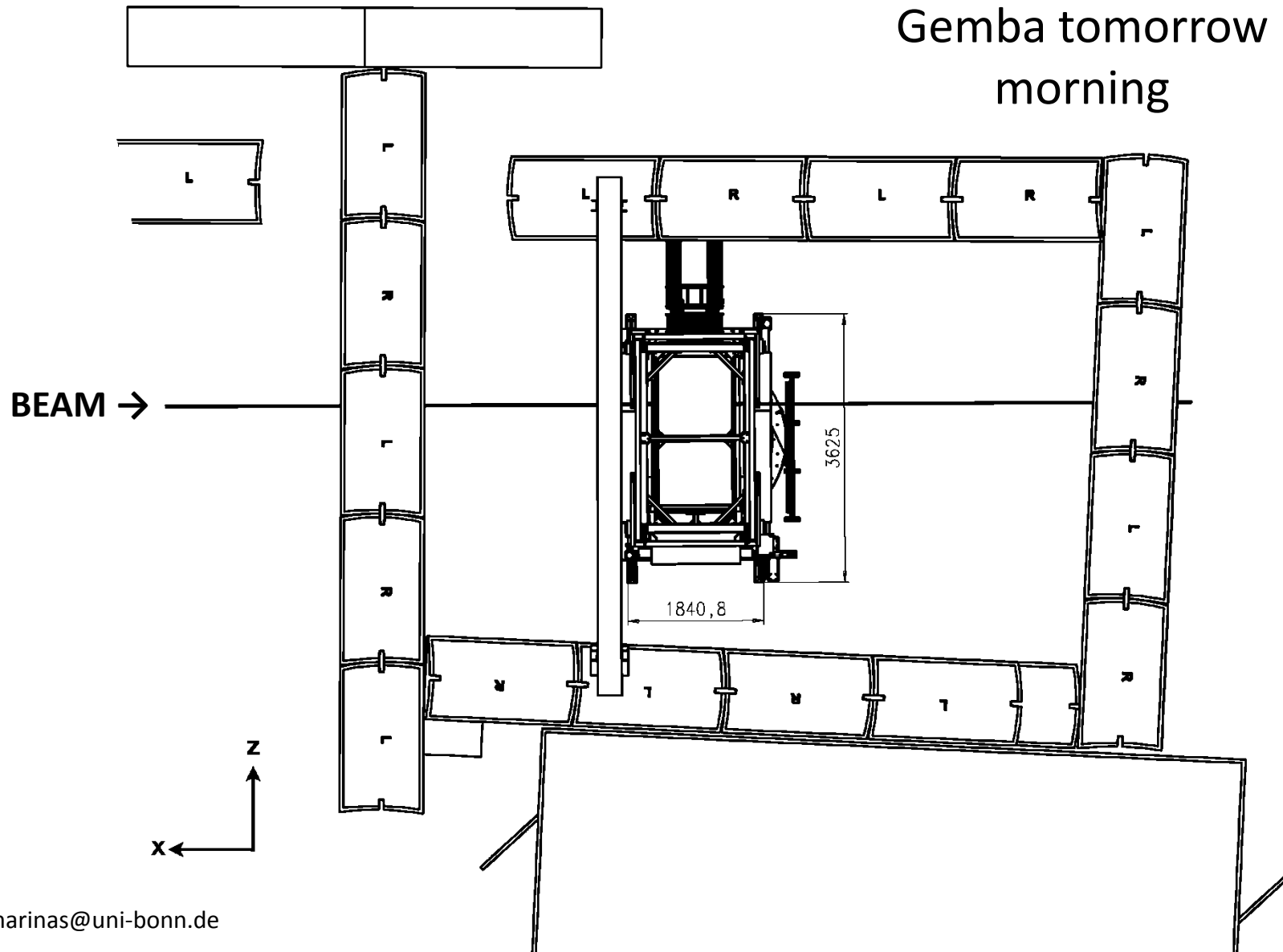
MAPS

- Pitch $18.4 \times 18.4 \times 50 \mu\text{m}^3$
- 1152×576 pixels
- $10.6 \times 21.2 \text{ mm}^2$ active area
- Binary readout ($3.5 \mu\text{m}$ resolution)
- Integration time $115.2 \mu\text{s}$
- Maximum rate of 2 kHz
- Efficiency $\sim 98\%$

EUDET (AIDA) Telescope







- # People and period expected for the different groups ?
- When do we start with the installation?
- Length of the cables, power consumption of electronics and size of your systems needed for the detailed preparation of the area

Thank you

