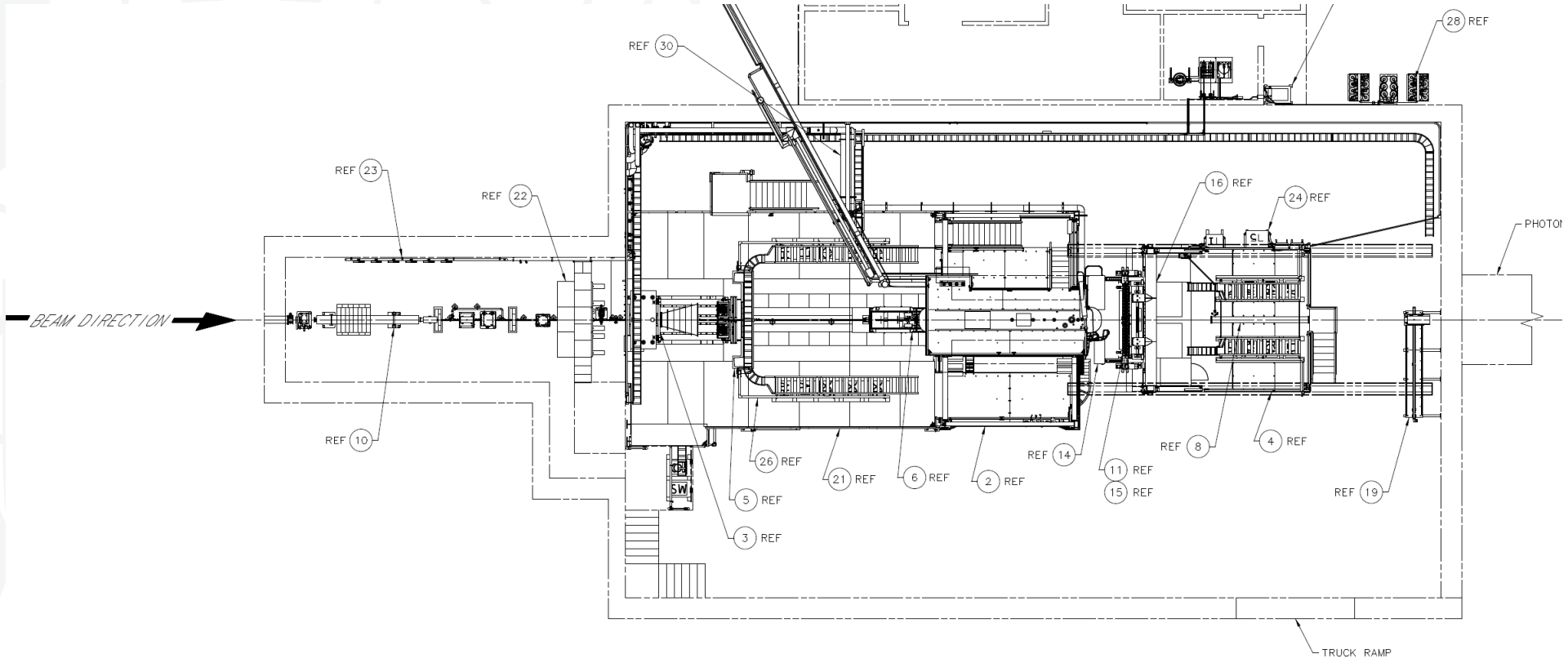
UNIVERSITY of York

KLF hypernuclei station location

Mikhail Bashkanov

Hall-D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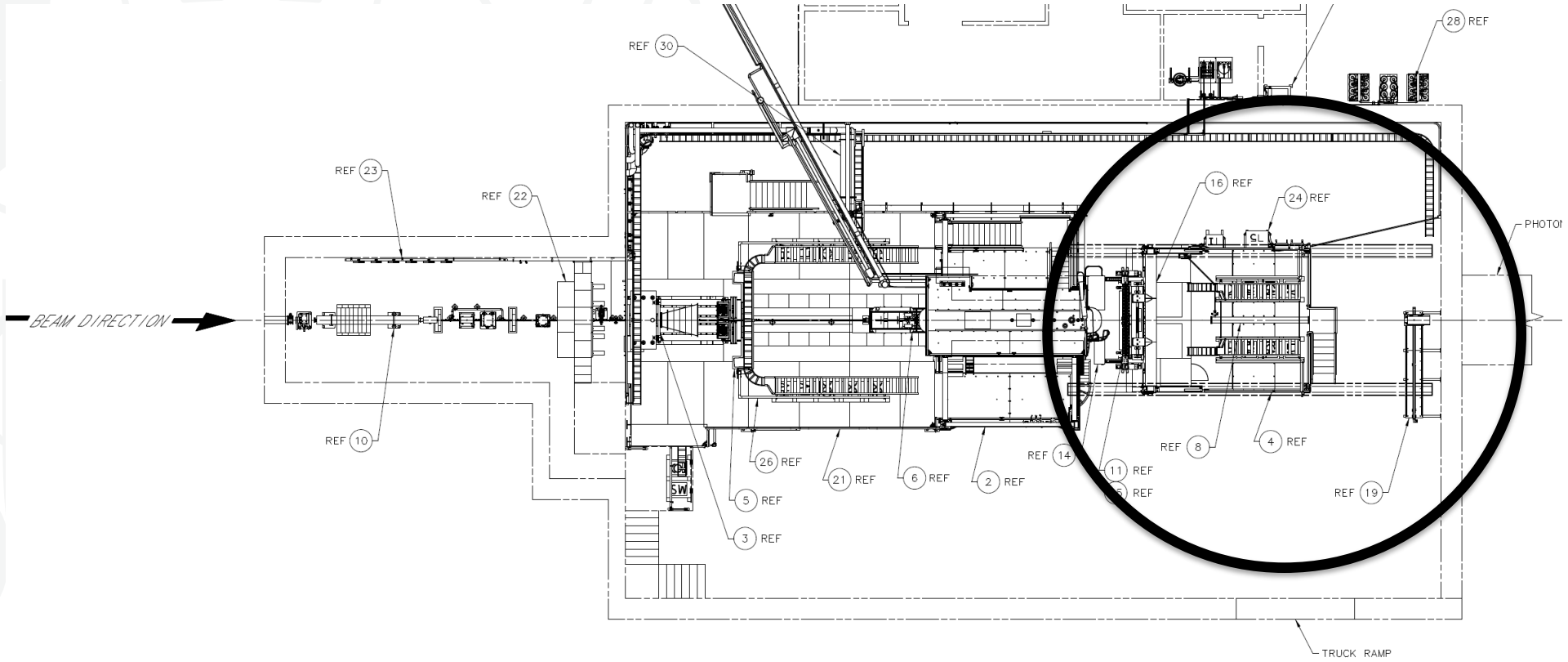
REF 23
REF 22
16 REF
24 REF
BEAM DIRECTION
REF 10
26 REF
21 REF
6 REF
2 REF
5 REF
3 REF
REF 14
11 REF
15 REF
REF 8
4 REF
REF 19
TRUCK RAMP

Hall-D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26 REF
21 REF
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REF 8
4 REF
5 REF
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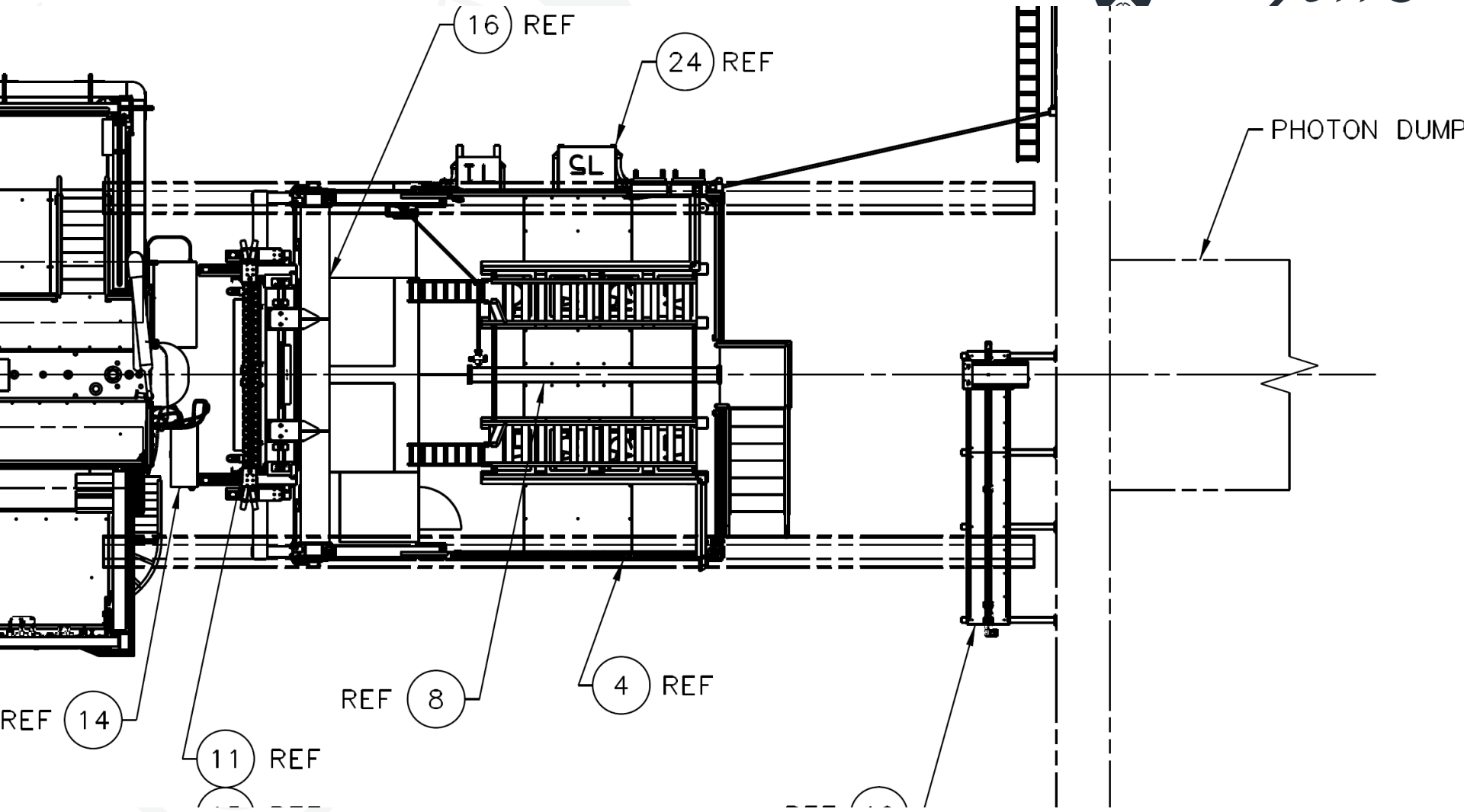
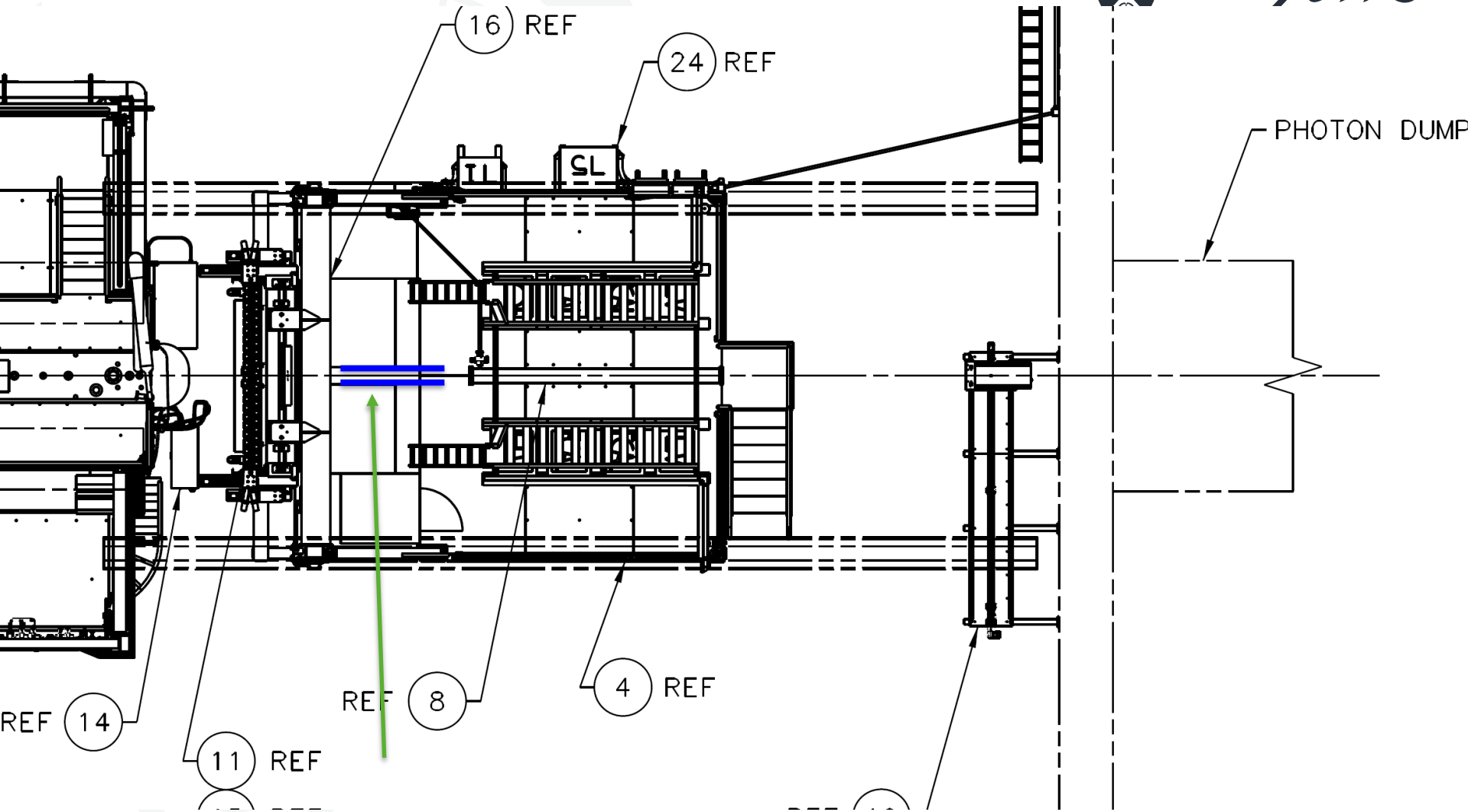
TRUCK RAMP

Forward Detector



Permanent Magnets



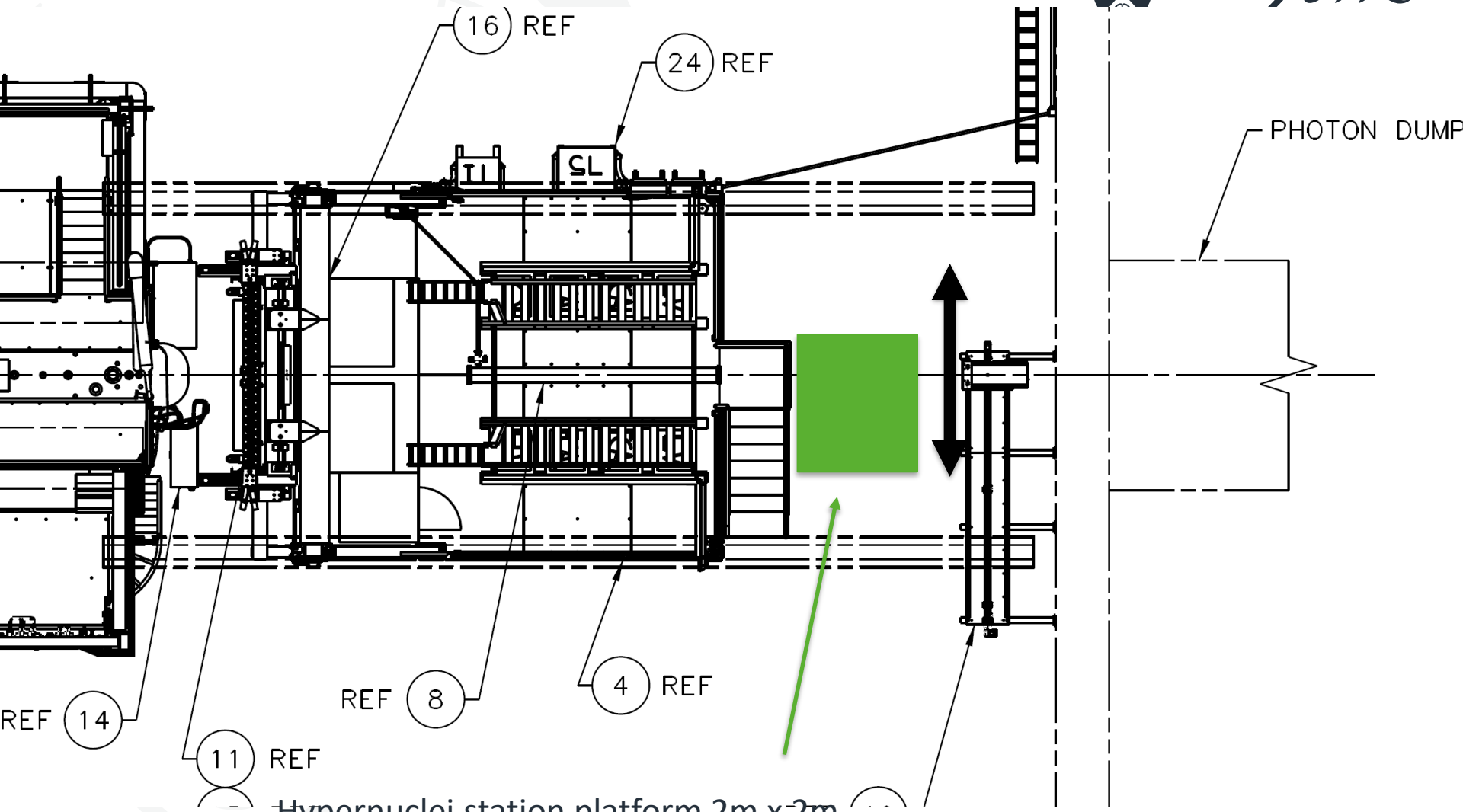
Permanent magnets, deflecting charge particles **UP** or **DOWN**, reducing radiation on crates

Permanent Magnets

N52 **NdFeB 100mm x 50mm x 20mm ~$40 per piece.**

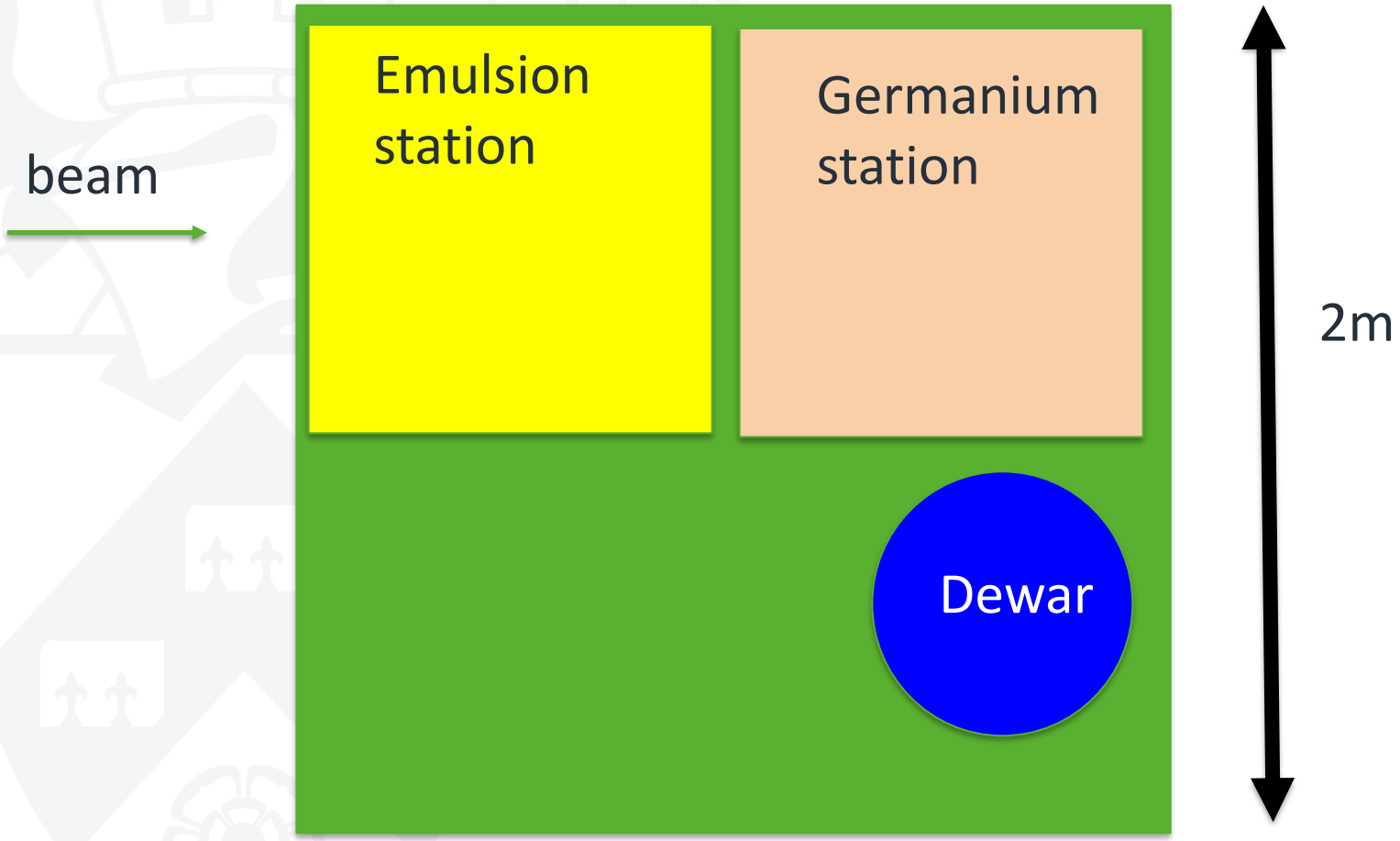
10 on the left, 10 on the right – 1m of magnetic field.

Hypernuclei platform



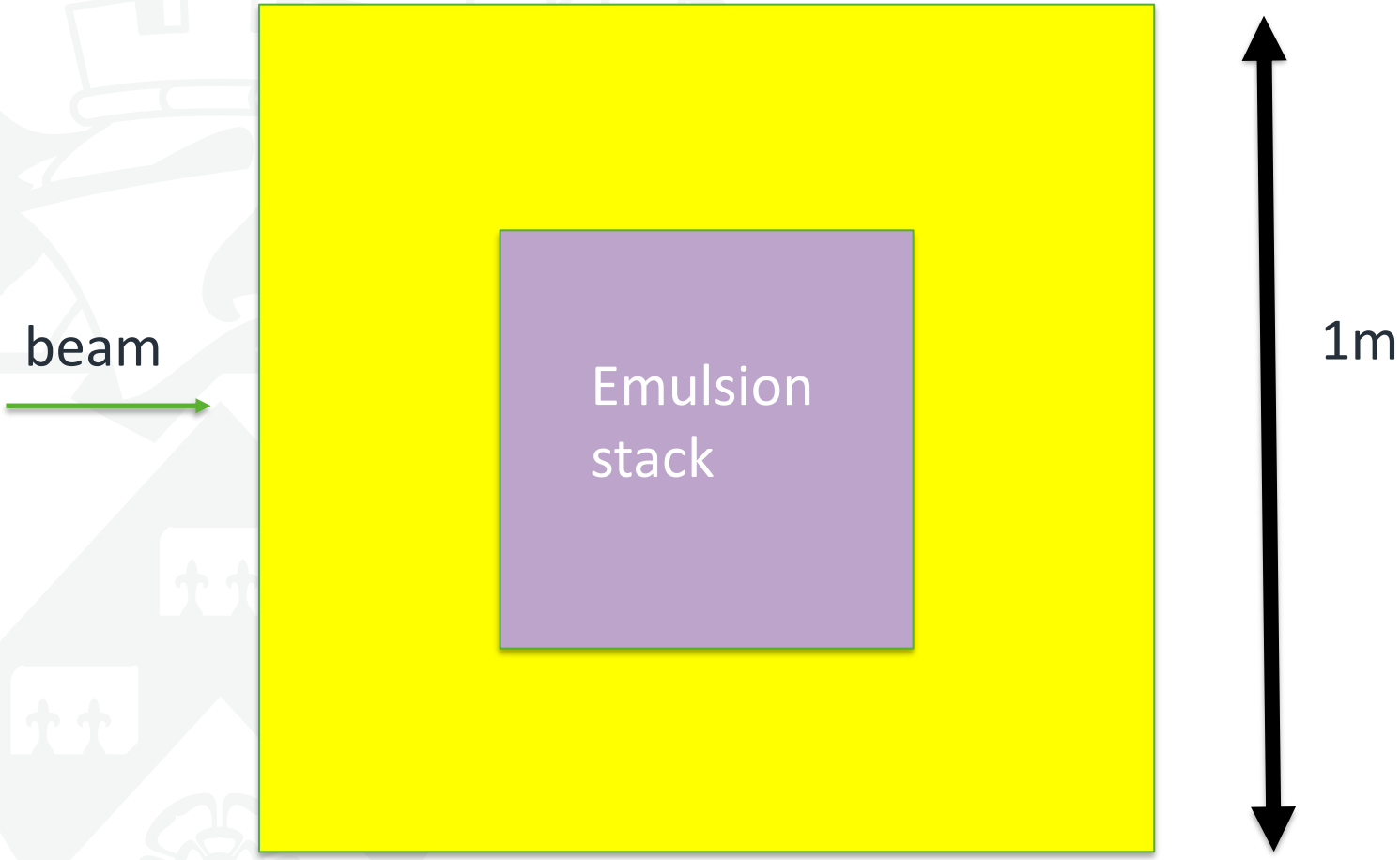
Hypernuclei station platform 2m x 2m
Can be moved away
Attachable to FD for stability during beamtime

Hypernuclei platform



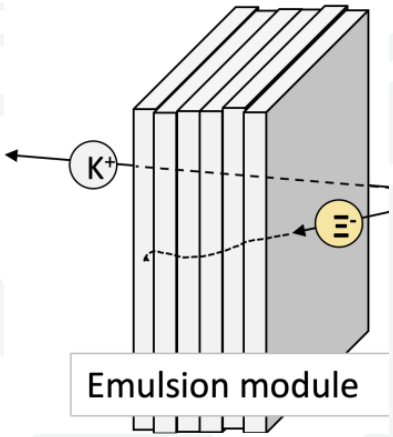
Both stations are about 1m x 1m

Emulsion station

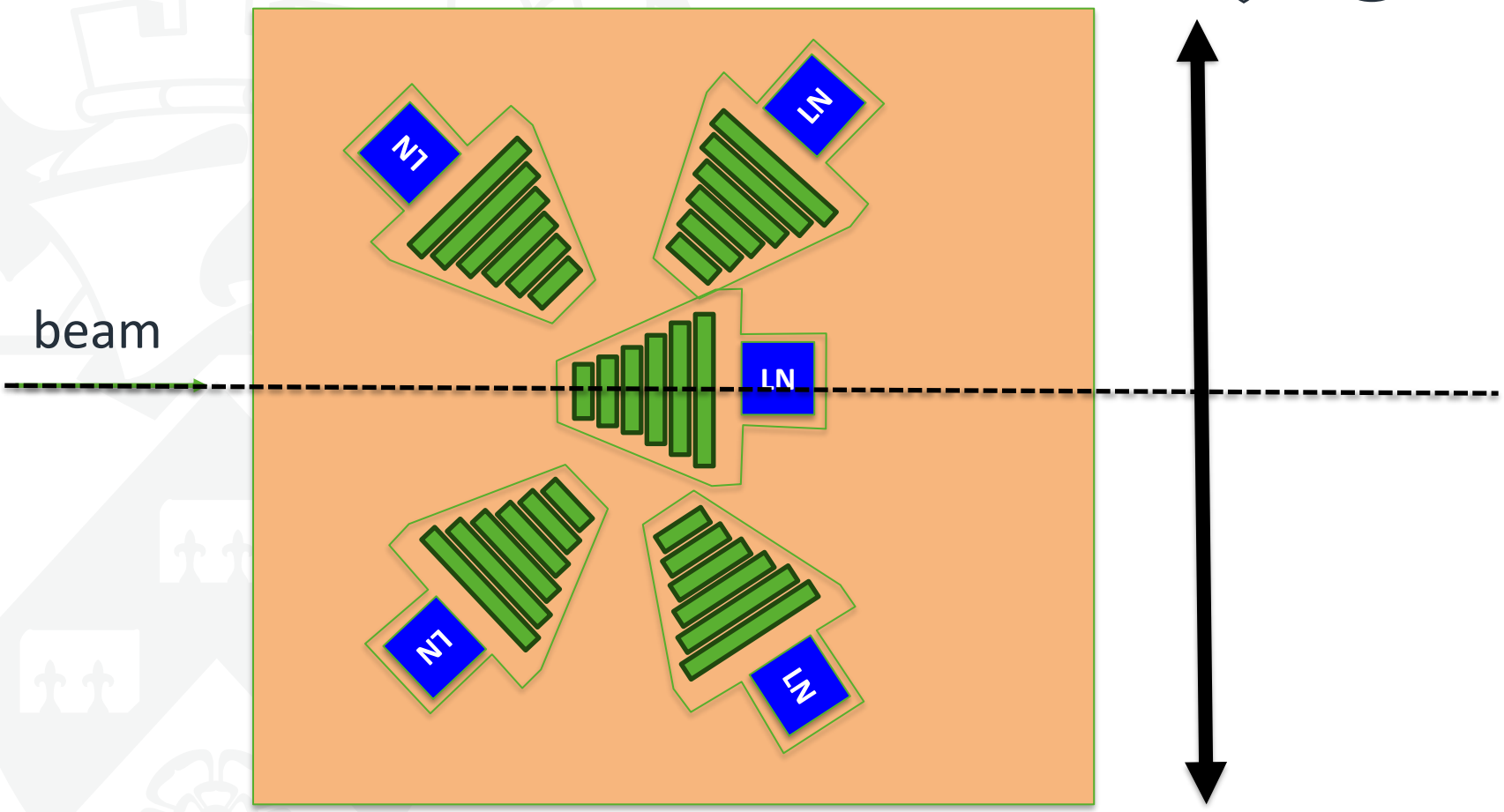


Emulsion Stack 35cm x 35 cm, 100 layers

Emulsion station

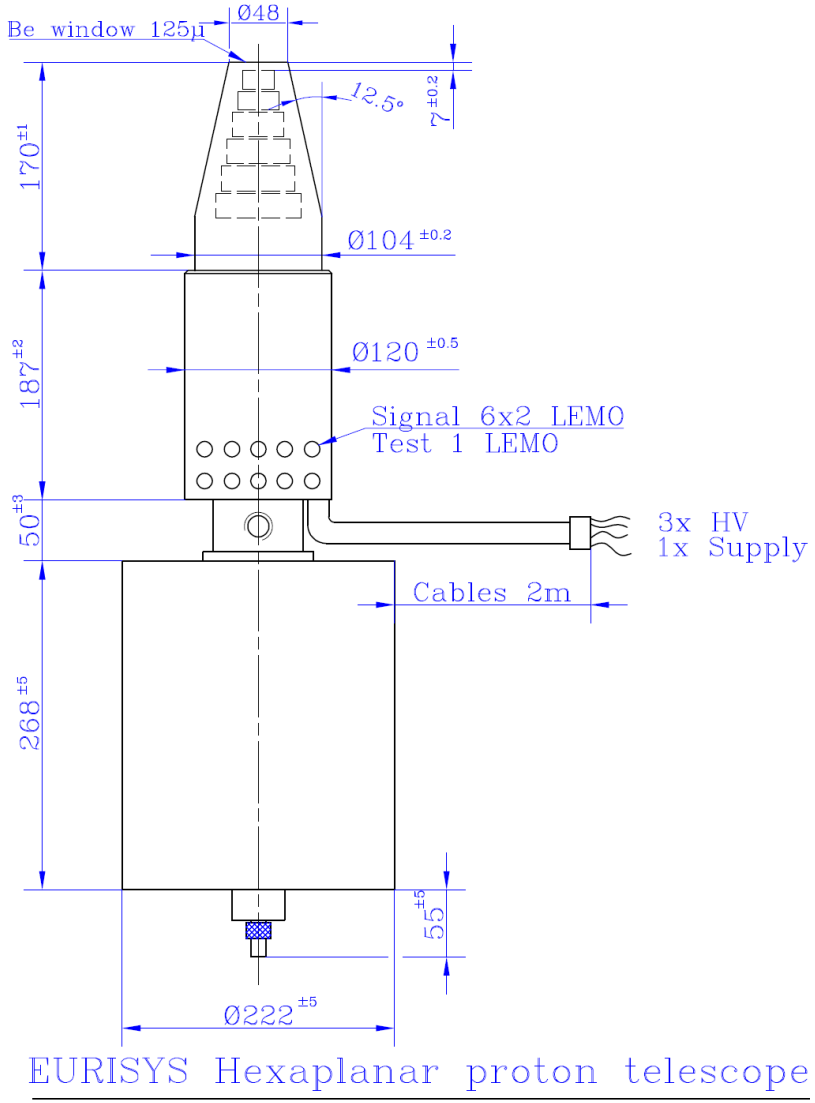


Germanium station



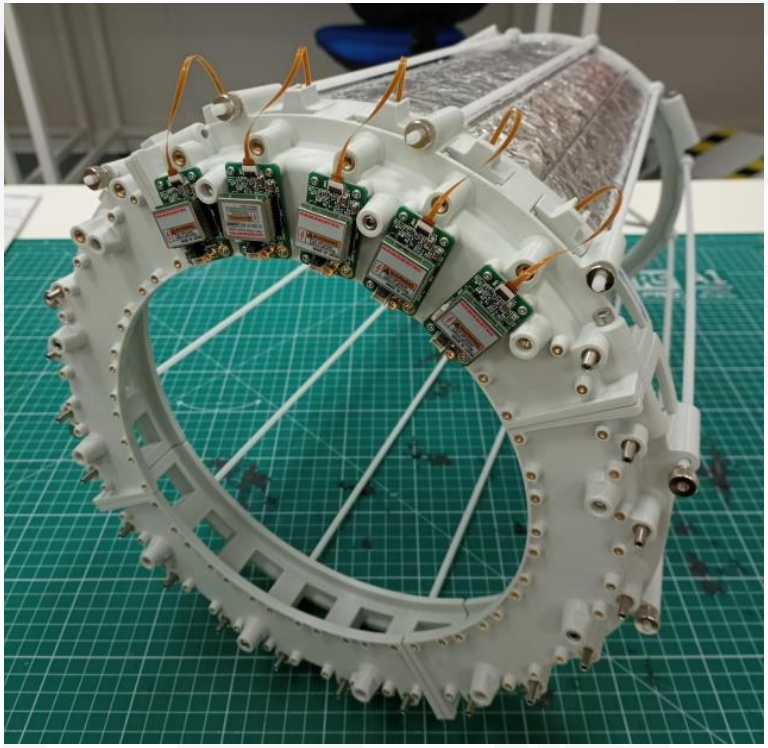
Germanium station

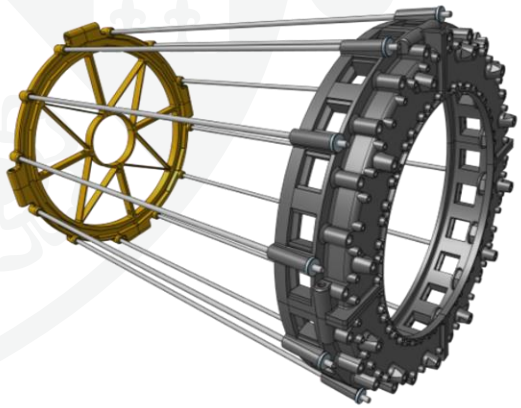
Germanium station



68cm x 22cm

Germanium station: plastic





- The central Ge detector will be surrounded by plastic barrel
- 24 elements
- 7mm thick
- SiPM readout