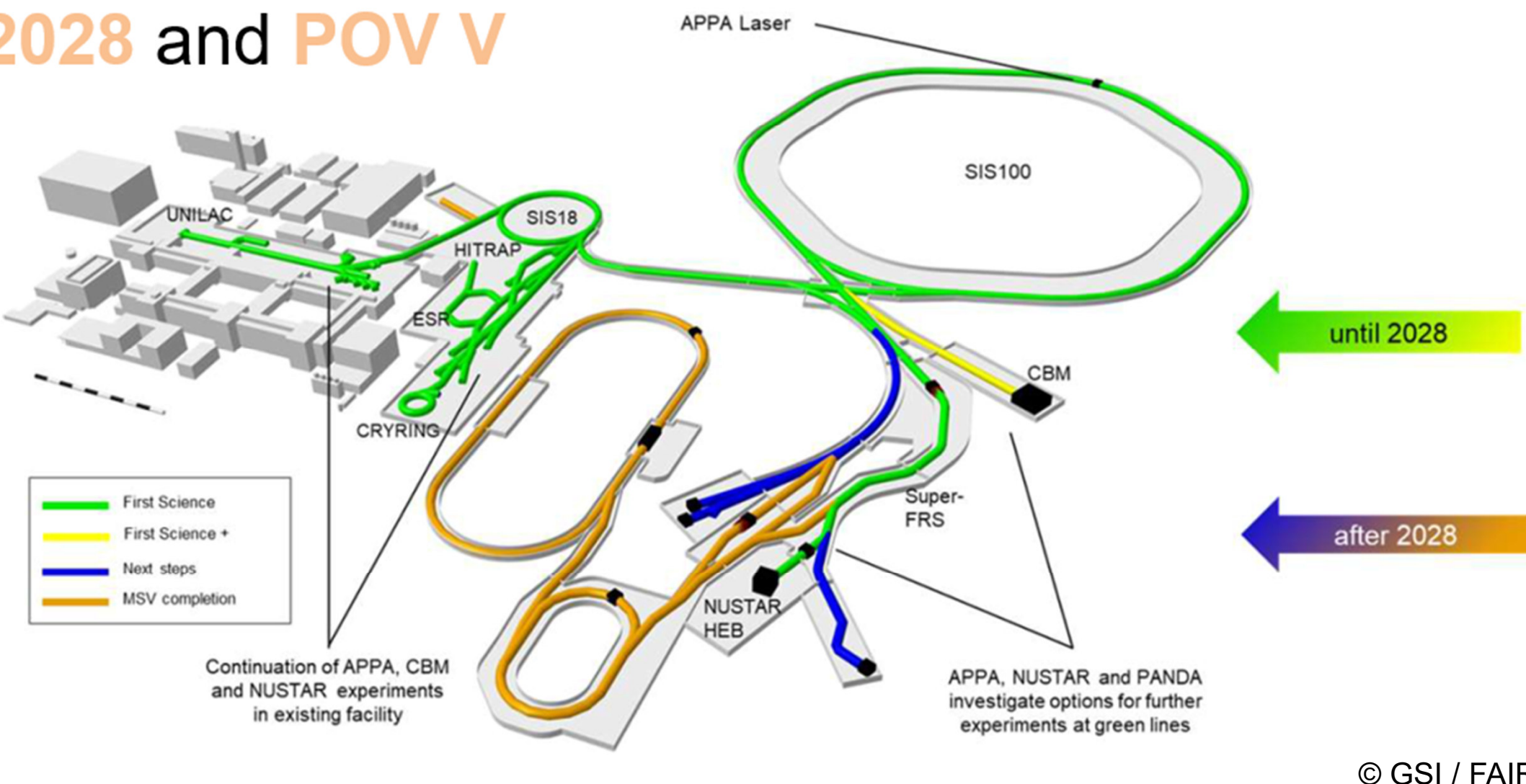


The New International Accelerator Facility FAIR: Progress on the construction – a glimpse on network densification, blue-lining and installation work

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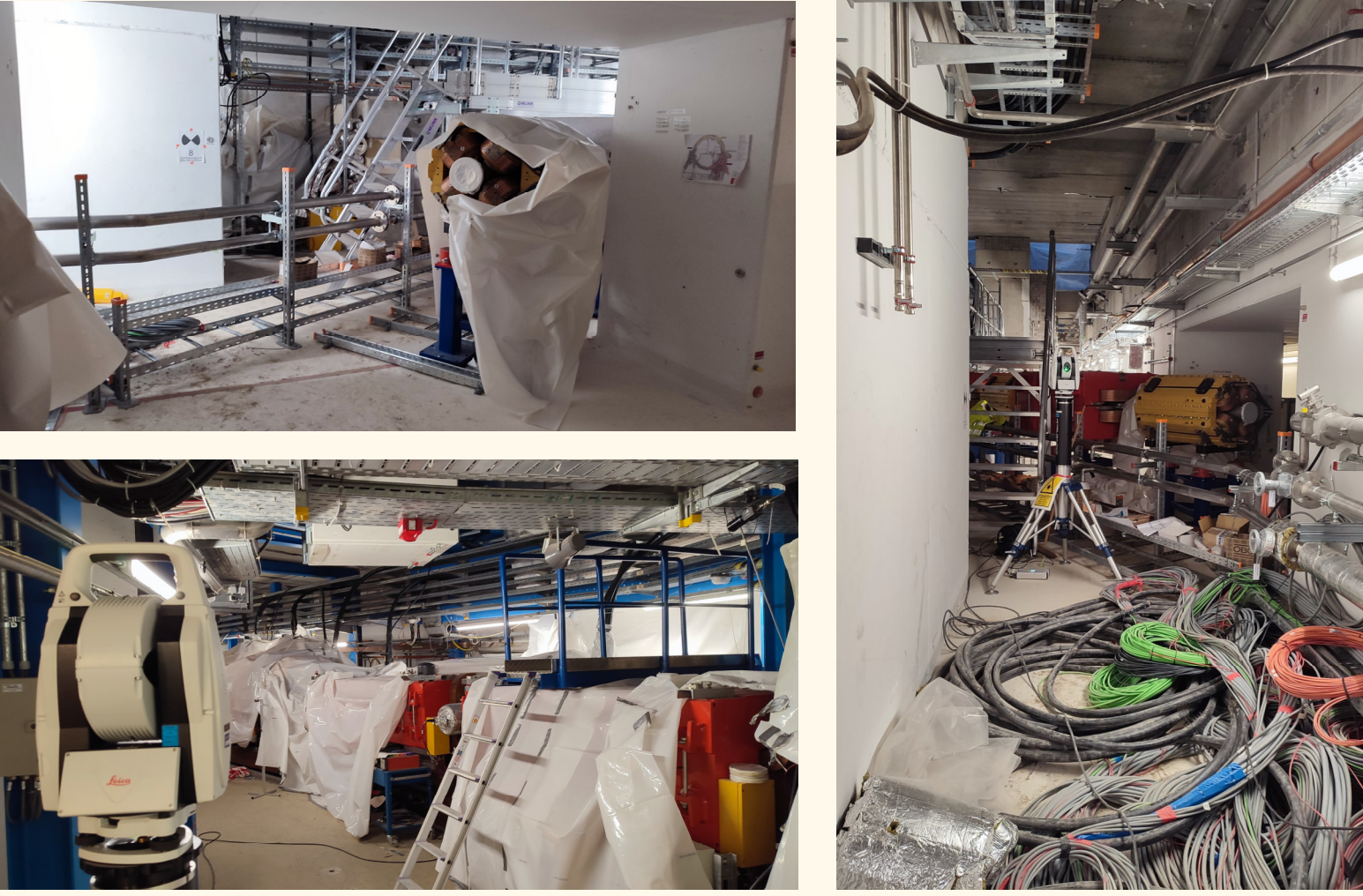
Experiment operations for FAIR2028 and POV V



Super-FRS – Target Chamber installed



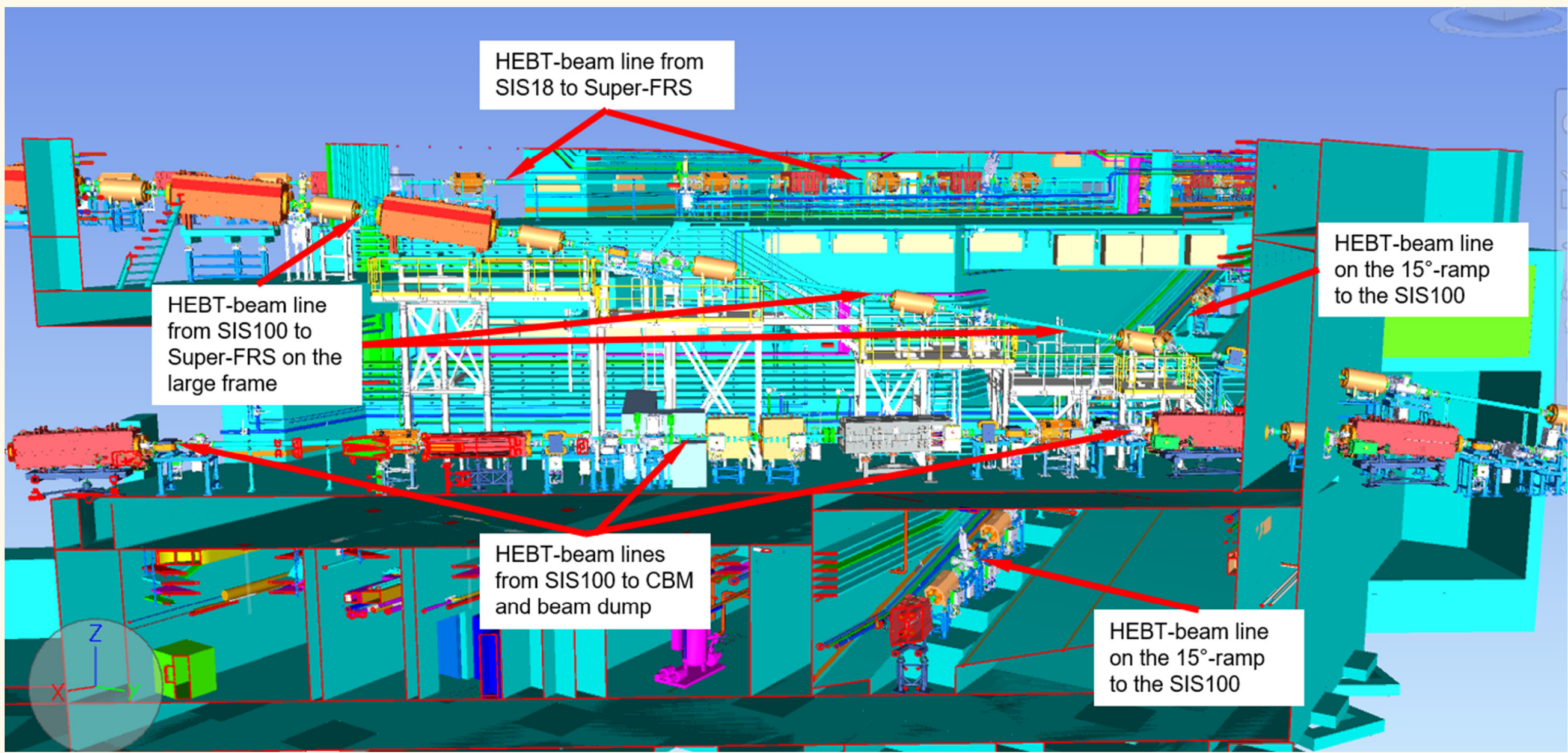
FAIR construction site – Overview 2026



Extremely challenging measurement conditions at the transition from the GSI SIS18 area to the first FAIR building, T101



SIS100 curve section – installed superconducting dipoles (CDM) on the blue-line



The enormous and large frame in the junction building to provide Super-FRS from SIS100. This CAD-Model sketch gives a glimpse about the challenges which have to come



Highly challenging blue-lining on the 15° ramp leading to SIS100.



Blue-lining towards the beam dump of the HEBT-ramp



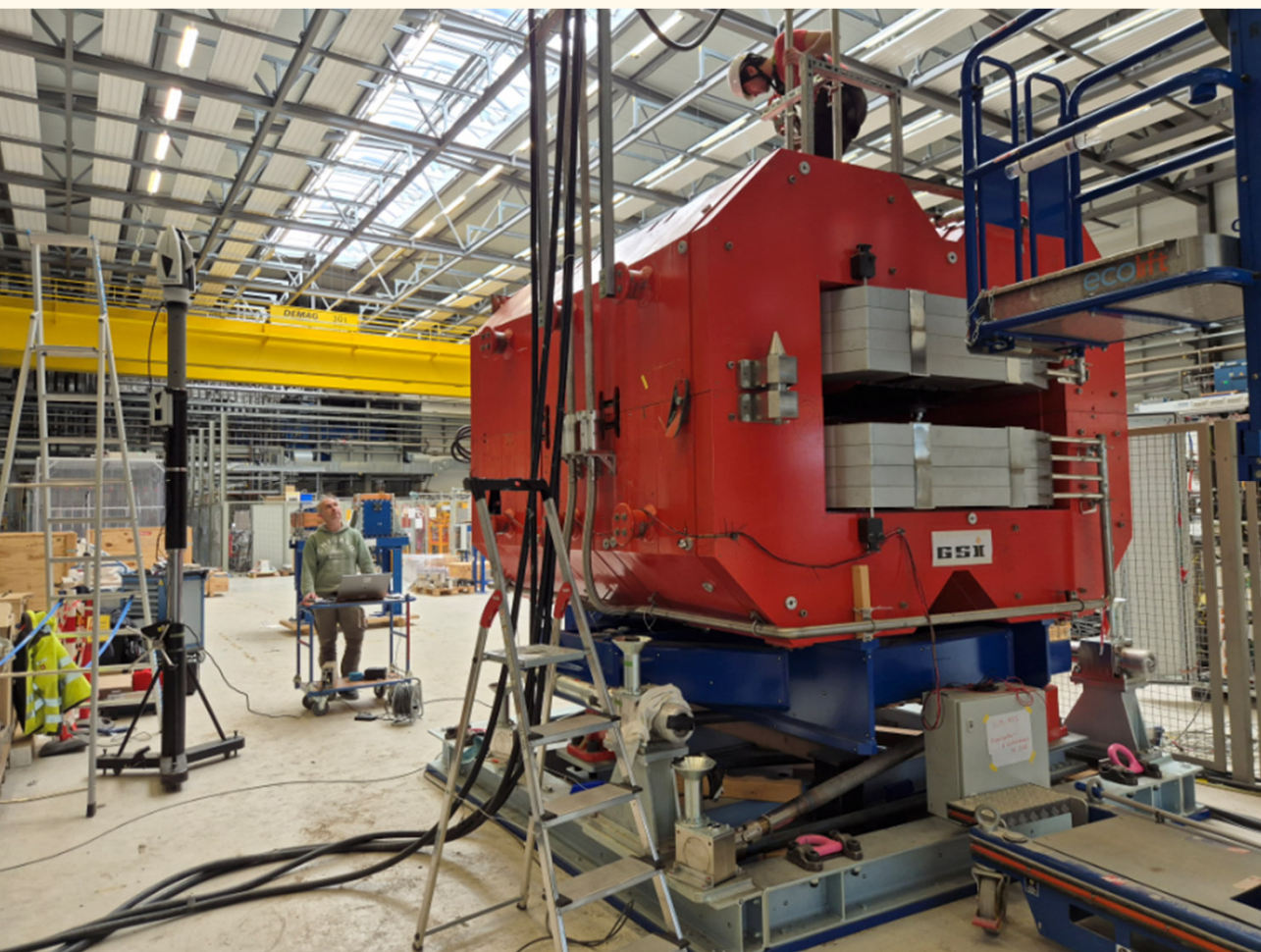
The first installation test of a normal conducting quadrupole on the 15° HEBT-ramp



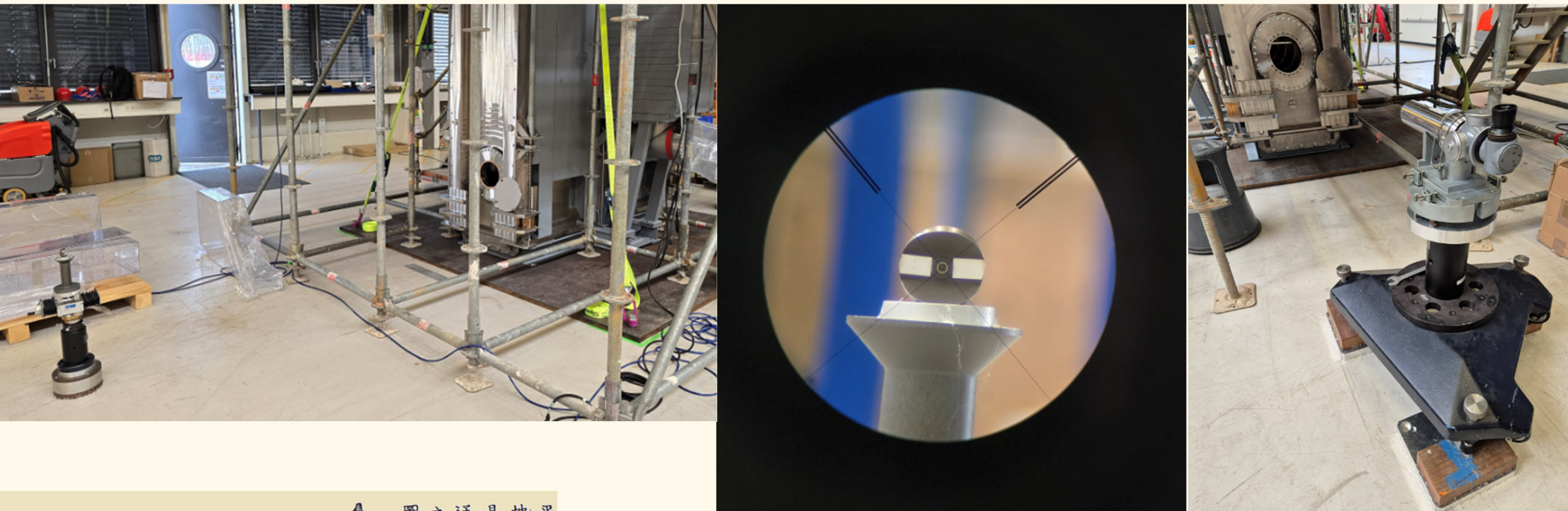
Network measurements and densifications from the HEBT line to the voluminous experimental area CBM with a beam line in 6 meter height



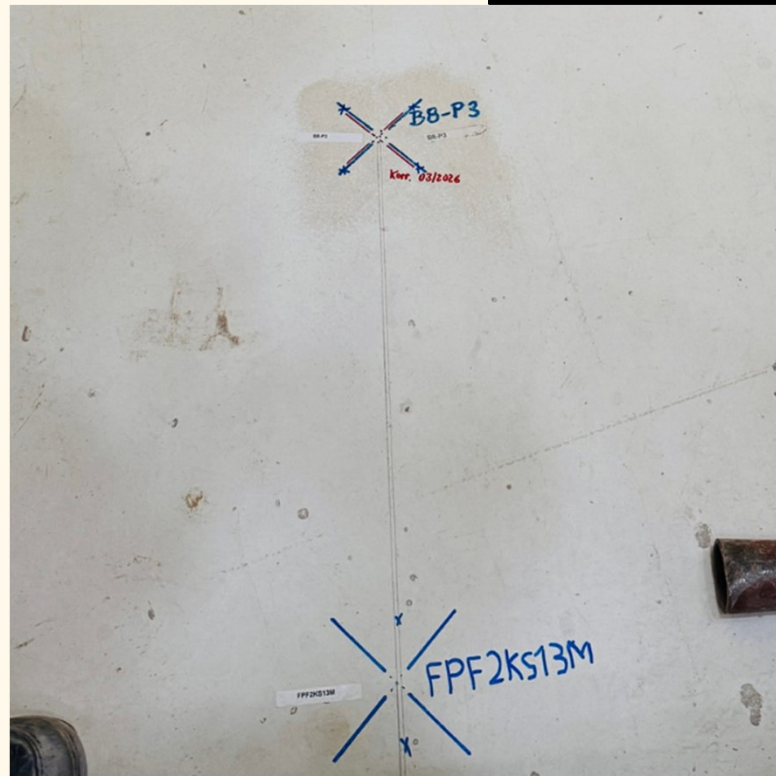
A multiplet in the Super-FRS pre-target area



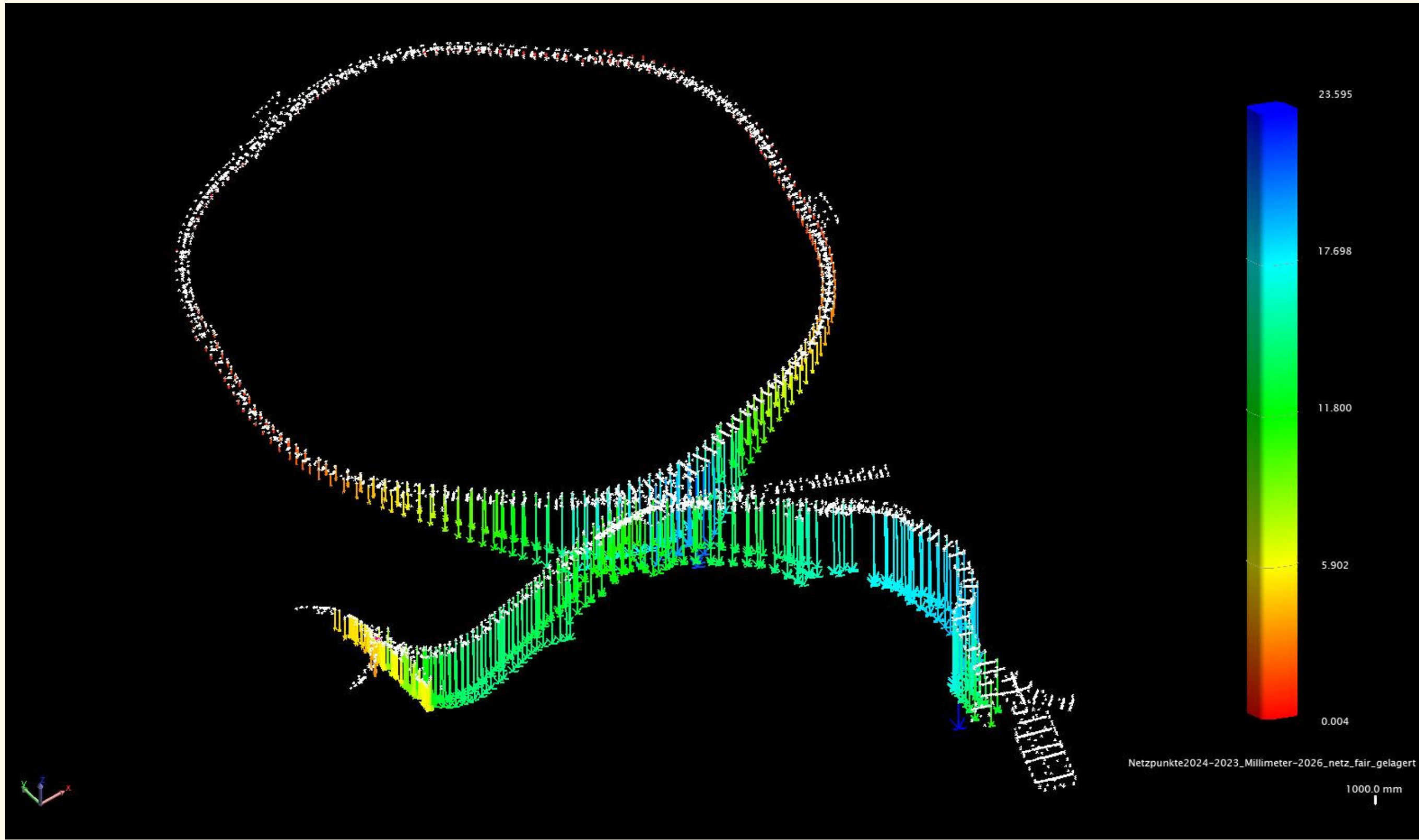
Final fiducialisation of the radiation resistant dipole for Super-FRS, measuring in large height



Alignment of a telescope onto the beam line of the Super-FRS-target-chamber to detect and align inner parts



Deviations in X and Y [position] of the complete network [2026] in relation to the same network in 2023/24. This results in an adaptation of the blue line within a range of several millimeters. The blue-lining in the area was performed in different time slots and so deviations of marked points could result



Deviations in Z [height] of the complete network [2026] in relation to the same network in 2023/24.

