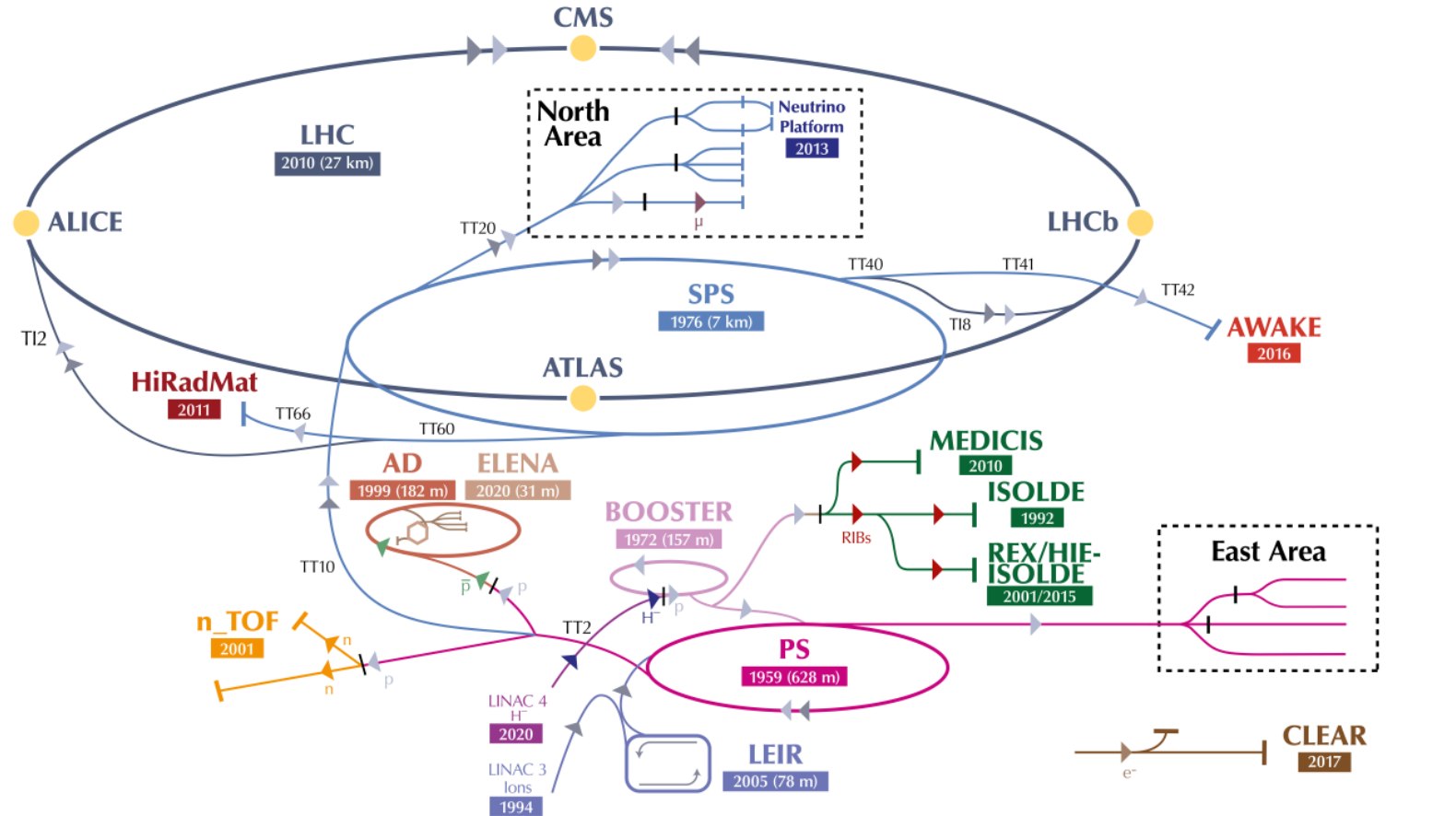


The CERN accelerator complex

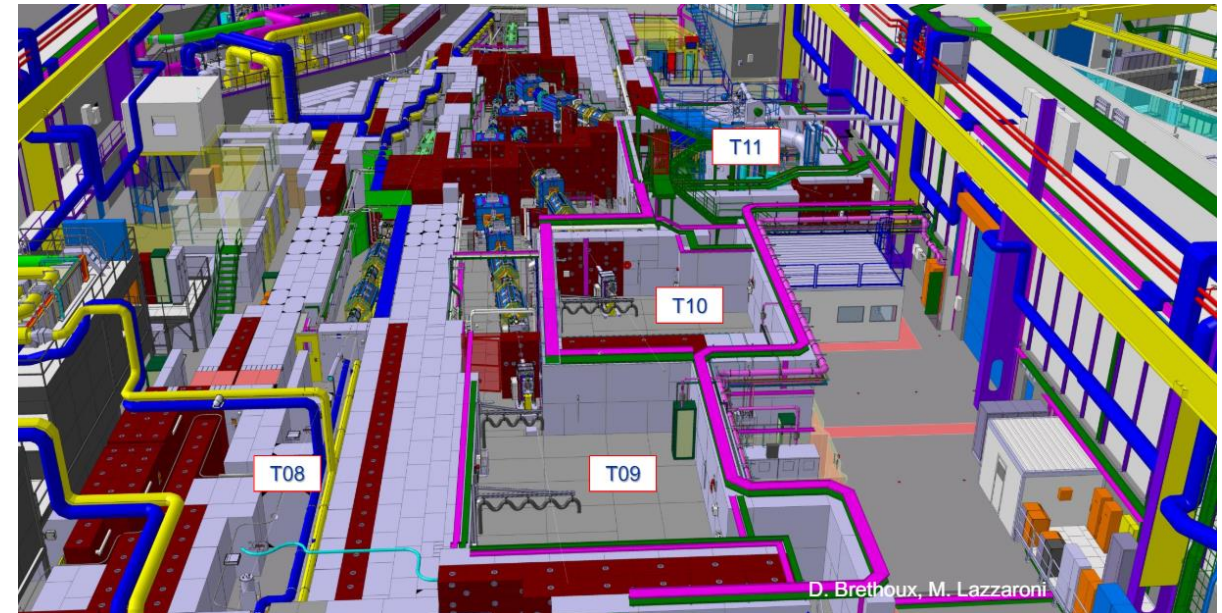
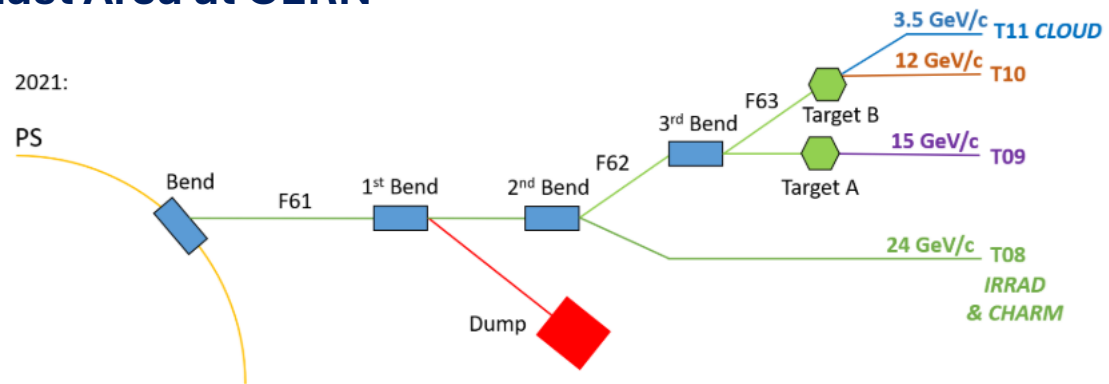
Complexe des accélérateurs du CERN



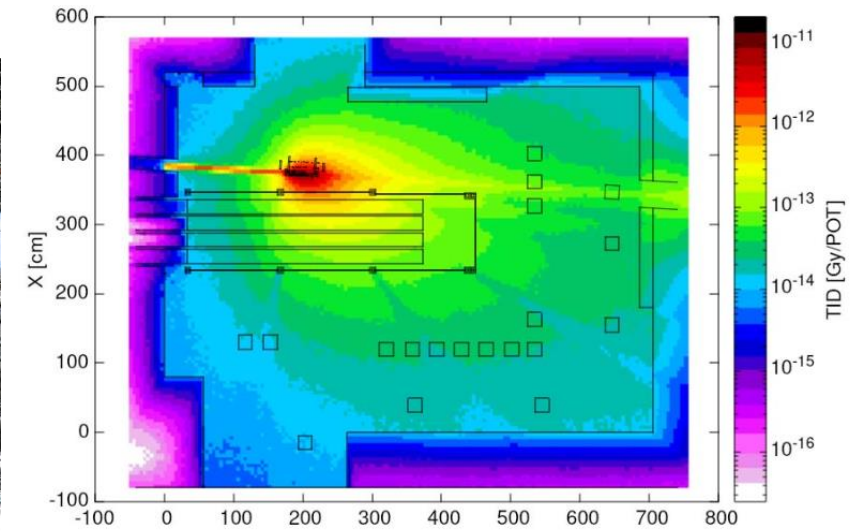
▶ H^- (hydrogen anions) ▶ p (protons) ▶ ions ▶ RIBs (Radioactive Ion Beams) ▶ n (neutrons) ▶ \bar{p} (antiprotons) ▶ e^- (electrons) ▶ μ (muons)

LHC - Large Hadron Collider // SPS - Super Proton Synchrotron // PS - Proton Synchrotron // AD - Antiproton Decelerator // CLEAR - CERN Linear Electron Accelerator for Research // AWAKE - Advanced WAKEfield Experiment // ISOLDE - Isotope Separator OnLine // REX/HIE-ISOLDE - Radioactive Experiment/High Intensity and Energy ISOLDE // MEDICIS // LEIR - Low Energy Ion Ring // LINAC - LINear ACcelerator // n_TOF - Neutrons Time Of Flight // HiRadMat - High-Radiation to Materials // Neutrino Platform

East Area at CERN



CHARM irradiation room – 24 GeV protons on copper target



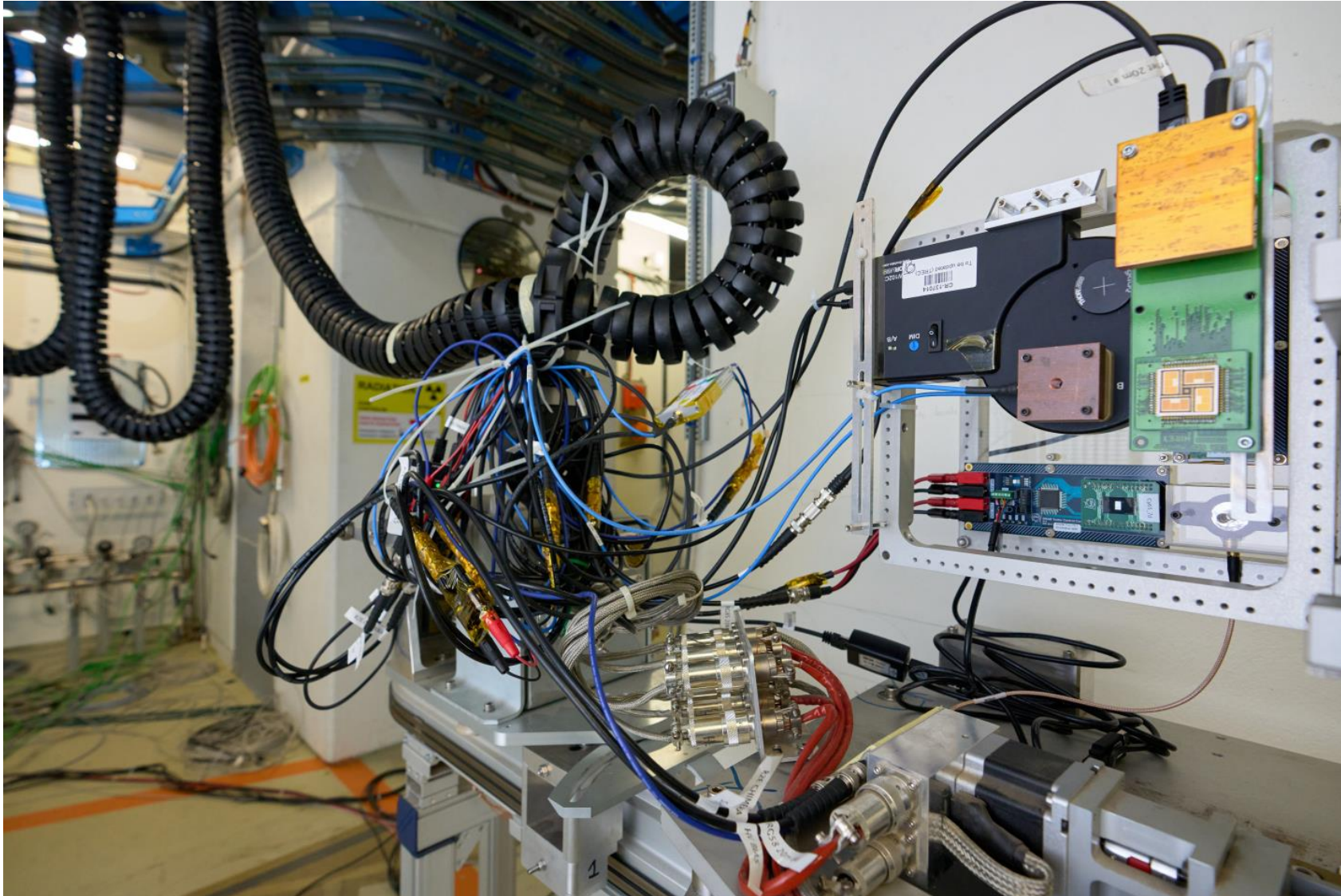
Accelerator system level testing in CHARM – 60/120A power converter module



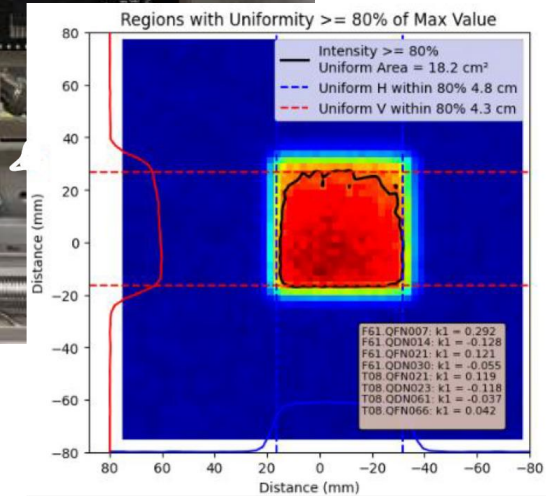
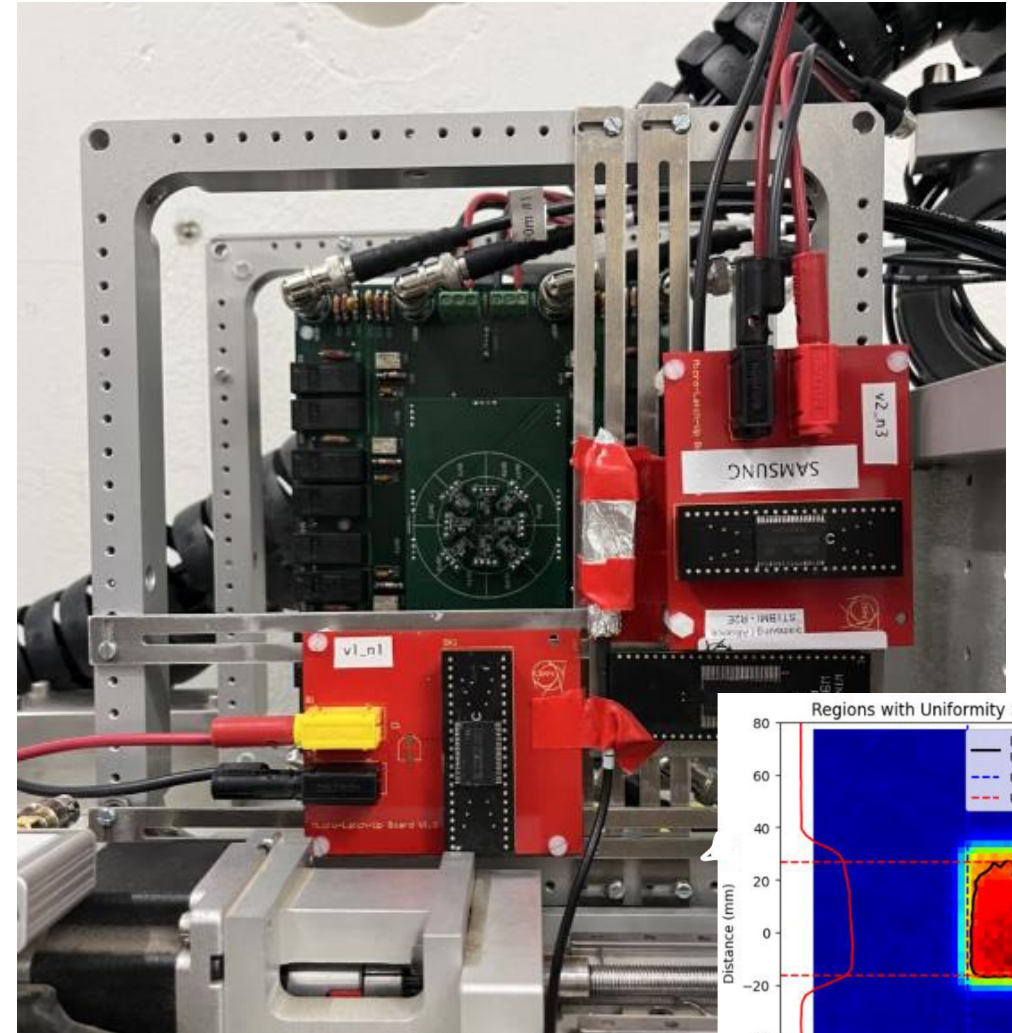
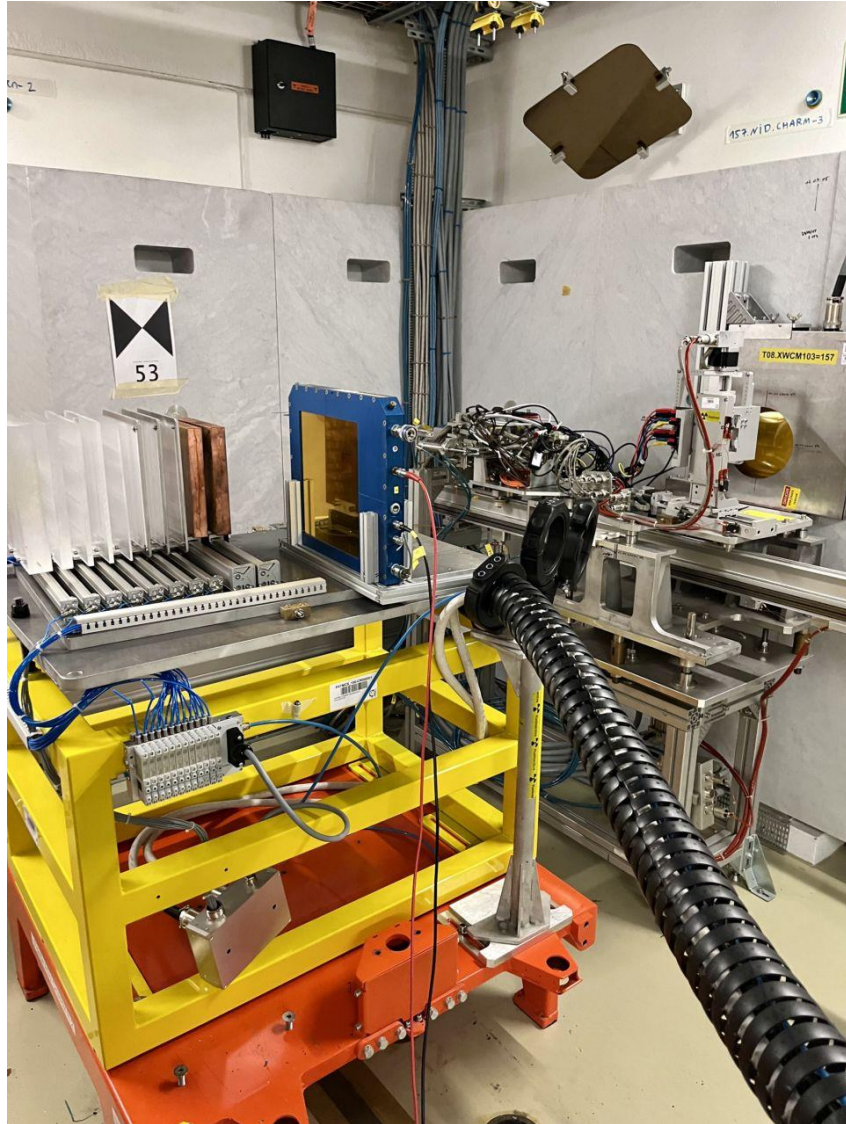
Accelerator component level testing in CHARM



In-beam configuration in CHARM (i.e. primary PS beam [protons, heavy ions] on test samples, without interacting with target)



High-energy heavy ion test campaign in Autumn 2023 (at the end of the T8 line, in the CHARM irradiation room)



Plans for 2024: move upstream within the T8 line, from CHARM to IRRAD

