Iván Podadera has been working on the particle accelerator field since 2002. Until 2005, he started doing my PhD at CERN, with a doctoral thesis about new developments to improve the optical quality of radioactive beams. More specifically, he implemented a new RFQ ionic trap -improving the beam optics of the HRS spectrometer at ISOLDE-, and testing new cooling methods in the REX-ISOLDE Penning trap, as part of the new HIE-ISOLDE facility. In 2005 he moved to the CERN Beam Diagnostics team, developing a prototype of nanometric precision beam position monitors for the CLIC main beam within the frame of the EUROTeV project.
From 2007 he got a position in Particle Accelerator Unit of CIEMAT in Madrid. Since then, he is being involved in several projects related with the IFMIF facility. First, and within the Europe-Japan Broader Approach agreement, he was co-coordinating the beam diagnostics for the Japan LIPAc accelerator, and also the Medium Energy Beam Transport Line matching the RFQ and the SRF LINAC. He participated in the integration, commissioning and validation of the accelerator in Japan, where in 2019 he operated the first-time accelerated and transported 125 mA, 5 MeV deuteron beam. In parallel, he has been part of the European design for the next Fusion Neutron Source from 2015, IFMIF-DONES. From end of 2019, he has been the Deputy Coordinator of the whole Accelerator Systems of IFMIF-DONES within the frame of the Early Neutron Source workpackage of the EUROFUSION project Horizon FP8 and FP9.
Since 2022, he is seconded to the IFMIF-DONES Spanish Consortium where he coordinates the Accelerator Systems activities.