

R³B comprises a set of detectors on a versatile setup with high efficiency, acceptance and resolution for kinematically complete measurements of reactions with high-energy radioactive beams. The setup will be located at the focal plane of the high-energy branch of the Super-FRS in the new FAIR facility (Darmstadt, Germany). The experiment setup is suitable for a wide variety of scattering experiments, i.e., such as heavy-ion induced electromagnetic excitation, knockout and breakup reactions, or light-ion (in)elastic and quasi-free scattering in inverse kinematics, thus enabling a broad physics programme with rare-isotope beams to be performed.

The GENP group at the University of Santiago de Compostela is involved in the development of a calorimeter for gamma-rays and light charged particles (CALIFA) and a Large-area ToF wall (i-ToF) for precise velocity determination of heavy residues originated in fission or spallation reactions.