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## Quasi-free scattering

- QFS successfully applied in inverse kinematics
- Rich physics program: N-N correlations, shell structure, cluster structure, unbound nuclei

## • R3B development

- Technical Design Report for neutron detector NeuLAND and calorimeter in 2011
- Start construction in 2012, physics run with new dipole and 20% NeuLAND and CALIFA in 2014
- Full R3B detection system operational in Cave C for physics runs 2016

## FAIR

- R3B hall ready for installation in 2017
- R3B @ Super FRS will start in 2018