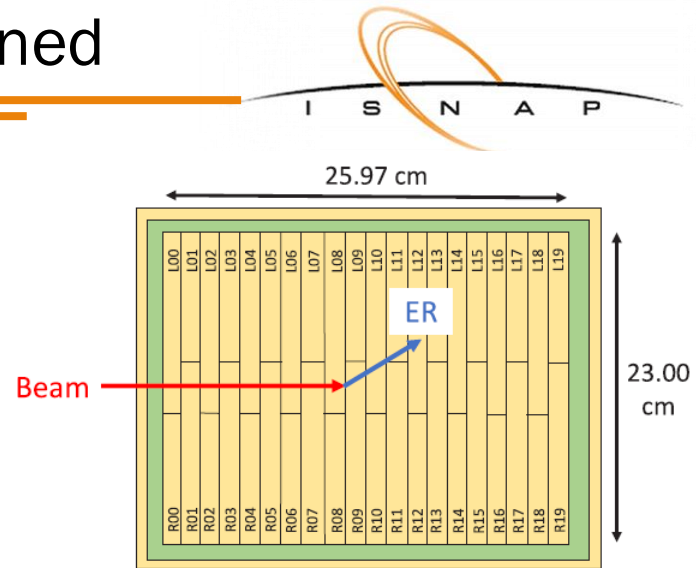
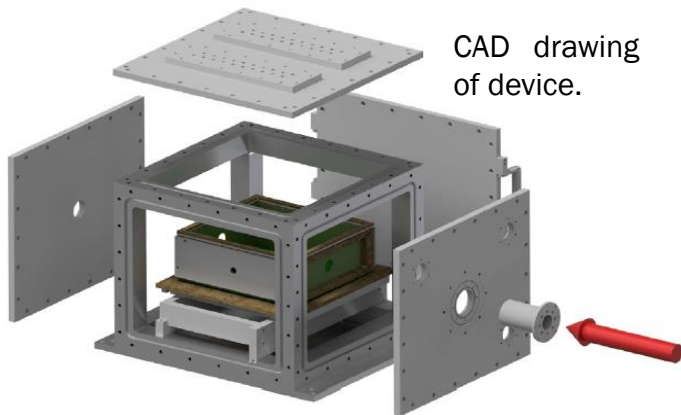


# MuSIC@Indiana Commissioned

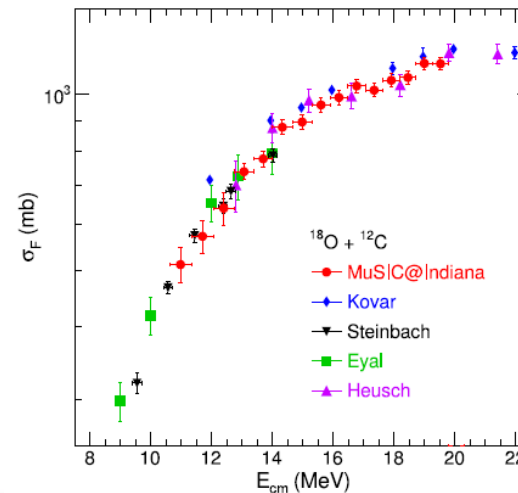
The structure and reactions of neutron-rich nuclei can be probed via measurements at current and next-generation exotic beam facilities.

A Multi-Sampling Ionization Chamber (MuSIC@Indiana) has been commissioned at the NSL via a series of measurements such as  $^{18}\text{O}+^{12}\text{C}$  fusion shown below.

Future measurements will utilize exotic neutron-rich beams at GANIL and FRIB.



A fusion reaction is detected by noting the large change in ionization for the evaporation residue (ER) with respect to the beam.



The measured cross sections agreed well with literature values.

