

**Progress in Experimental Research on Neutron Capture Cross
Sections at University of South China**

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Neutron capture cross sections of heavy elements are important parameters for understanding the nuclear processes of celestial bodies. The Back-n beamline of China Spallation Neutron Source provides a good platform for the experimental measurement of neutron capture cross section. This report will introduce the recent progress of neutron capture cross section experiments conducted by the group of University of South China on the Back-n facility, including the neutron capture cross section experiments of Er/Sm/Yb/Cu/Bi targets.