

HeBGB: the Ohio University Neutron Long Counter

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The $^3\text{HeBF}_3$ Giant Barrel (HeBGB) detector is a neutron counter with nearly 4π coverage and near-constant neutron detection efficiency that was purpose built to measure (alpha,n) reaction cross sections at the Edwards Accelerator Laboratory at Ohio University. This talk will describe the design, commissioning, and first science of HeBGB. Particular emphasis will be placed on recent results regarding the $^{13}\text{C}(\alpha,n)^{16}\text{O}$ cross section at energies above 5MeV.

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