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## The first-excited $2^+$ state in $^{14}\text{C}$

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$B(E2: 2^+ \rightarrow 0^+)$  values of neutron-rich even-even carbon isotopes have been reported up to  $^{20}\text{C}$  and do not only provide important information on the evolution of the underlying structural mechanism towards the drip line but also provide critical constraints for theoretical models. The  $B(E2: 2^+ \rightarrow 0^+)$  value in  $^{14}\text{C}$  can be indispensable to advance our understanding of the Carbon isotopic chain. However, the experimentally determined  $B(E2: 2^+ \rightarrow 0^+)$  value for  $^{14}\text{C}$  exhibits persistent inconsistencies with that obtained from theoretical models, including the no-core shell model. The attempted safe Coulomb excitation experiment of  $^{14}\text{C}$  at Florida State University took advantage of the unique beam capabilities and the availability of high-efficiency large volume LaBr<sub>3</sub> detectors and the S3 double sided silicon strip detector. The preliminary results from the experiment to attempt the Coulomb excitation of  $^{14}\text{C}$  will be presented.

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