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Lifetimes of $2+$ states in $^{104,106}\text{Zr}$ measured using EURICA augmented with 18 $\text{LaBr}_3(\text{Ce})$ detectors

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Abstract (text):

In May 2013 the EURICA array was augmented with 18 $\text{LaBr}_3(\text{Ce})$ detectors so that short level-lifetimes could be measured. The performance of the $\text{LaBr}_3(\text{Ce})$ array will be outlined and results of measurements on the first $2+$ states in $^{104,106}\text{Zr}$ [1] will be presented and discussed in terms of the deformations extracted for the nuclei. Additional results on new isomers observed in ^{113}Nb and ^{115}Mo will also be discussed as well as ideas for future experiments using a full array of $\text{LaBr}_3(\text{Ce})$ detectors [2].

REFERENCES:

[1] F. Browne et al., Phys. Lett. B750 (2015) 448-452.

[2] O. J. Roberts et al., Nucl. Inst. Meth. Phys. Res. A748 (2014) 91-95.

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