

STUDY OF EXCITED STATES OF A ${}^8\text{Be}$
NUCLEUS IN THE CORRELATIVE
EXPERIMENT

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S u m m a r y

Results of investigation of excited levels of ${}^8\text{Be}$ obtained from the analysis of $\alpha\alpha$ -coincidence matrices for the ${}^{12}\text{C}(\alpha, \alpha\alpha){}^8\text{Be}$ reaction at the α -particle's energy of 27.2 MeV are presented. Information about the energy position and width of excited levels of ${}^8\text{Be}$ is derived from Q -spectra which were calculated through the energy of the third particle (${}^8\text{Be}$) obtained by using the laws of conservation of energy and momentum.