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Nuclear Experiment

{65}\$Co

(Submitted on 14 Jun 2011)

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Lifetimes of the $9/2^-_1$ and $3/2^-_1$ states in ^{63}Co and the $9/2^-_1$ state in ^{65}Co were measured using the recoil distance Doppler shift and the differential decay curve methods. The nuclei were populated by multi-nucleon transfer reactions in inverse kinematics. Gamma rays were measured with the EXOGAM Ge array and the recoiling fragments were fully identified using the large-acceptance VAMOS spectrometer. The E2 transition probabilities from the $3/2^-_1$ and $9/2^-_1$ states to the $7/2^-$ ground state could be extracted in ^{65}Co as well as an upper limit for the $9/2^-_1$ trightarrow $7/2^-_1$ states to the $9/2^-_1$ model calculations in the $9/2^-_9$ model spaces, allowing

to draw conclusions on the single-particle or collective nature of the various states.

Lifetime measurements in \$^{63}\$Co and \$^

(GANIL), J. Ljungvall (GANIL, CSNSM, IRFU), A. Görgen (IRFU), A. Obertelli (IRFU),

W. Korten (IRFU), A. Gadea, L. Gaudefroy (CEA DIF), M. Hackstein, D. Mengoni, Th.

Pissulla, F. Recchia, M. Rejmund (GANIL), W. Rother, E. Sahin, C. Schmitt (GANIL),

A. Dijon (GANIL), E. Clément (GANIL), G. De France (GANIL), P. Van Isacker

A. Shrivastava, J.J. Valiente-Dobon, K.O. Zell, M. Zielinska

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