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Lifetime measurements in "fpgd" nuclei - E663

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As first out in the AGATA@Ganil physics campaign an experiment aiming at both lifetime measurements and determination of g-factors for nuclei close to ^{68}Ni was performed. The experiment was run using 19 AGATA crystals and using the Orsay Universal Plunger System. The lifetimes of excited states in ^{59}Mn , $^{62,64}\text{Fe}$, and $^{61,63}\text{Co}$ have been determined.

These new results will be discussed as well as some of the difficulties encountered during the analysis of the experiment. In particular it will be shown how a factor of two of statistics could be recuperated and how the yrast structure of the even-even nuclei in the region makes precise lifetime measurements very challenging.

Finally an example of simulations used to estimate the effective peak shapes used to estimate the effect of relatively long flight time through the degrader will be shown.

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