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Coulomb Excitation of Neutron-rich Xe-Isotopes at REX-ISOLDE

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Recent studies on isotopes around the shell closure N=82 have shown that despite decreasing excitation energies the B(E2) values of Sn and Te isotopes above N=82 are lower than expected. The aim of our experiment was to measure B(E2) values in neutron-rich even-even isotopes around the double magic 132Sn. In a first campaign in 2004 we measured the gamma transitions of 122-126Cd. In 2005 we used the HPGe gamma detector array MINIBALL for measuring the deexcitation gammas following Coulex of 138-142Xe.

This will shed some light on the ambiguous measurements of the B(E2) value of 138Xe and gives us the possibility to evaluate the B(E2) values of 140,142Xe for the first time.

In this talk we will present first results of the analysis and discuss future experiments.

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