

# 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  $^{132}\text{Sn}$ . In a first campaign in 2004 we measured the gamma transitions of  $^{122-126}\text{Cd}$ . In 2005 we used the HPGe gamma detector array MINIBALL for measuring the deexcitation gammas following Coulex of  $^{138-142}\text{Xe}$ .

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

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

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