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QRPA calculations of Giant Monopole Resonances PAOLO AVOGADRO, CARLOS BERTULANI, Texas A&M - Commerce, TAKASHI NAKATSUKASA, RIKEN — We present calculations of giant monopole resonances obtained with a fully self consistent spherical quasiparticle random phase approximation (QRPA) on top of a Hartree-Fock-Bogoliubov (HFB) code. These results are compared with the most recent experiments on Sn and Cd isotopes to try to shed light on the abnormal softness of these isotopes. In the particle hole channel we use Skryme functionals while in the pairing channel we make use of density dependent contact interactions. The density dependence of the pairing interaction is explicitly taken into account.

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