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Recent results from collinear resonance ionization spectroscopy (CRIS) at ISOLDE-CERN

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The collinear resonance ionization spectroscopy experiment (CRIS) at ISOLDE-CERN has been developed as a sensitive technique to access to electromagnetic properties of exotic nuclei. This technique provides observables that are key for our understanding of the nuclear many-body problem; nuclear spins, electromagnetic moments, and changes in the root-mean-square charge radii. This contribution will present the results from recent experimental campaigns in the vicinity of the so-called doubly magic nuclei: ^{52}Ca , ^{78}Ni , ^{100}Sn and ^{132}Sn . The relevance of these results, in connection with recent developments in nuclear theory, will be discussed.

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