

ENERGY-LOSS SPECTROMETER FOR PRECISE RADIOACTIVE ION BEAM EXPERIMENTS IN THE VICINITY OF THE COULOMB BARRIER

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The energy-loss spectrometer – very effective set-up for precise nuclear reactions study based on magnetic analysis of primary beam and charged particle nuclear reaction products have been proposed. Based on existing magnetic analyzers, it may increase the magnetic spectrograph efficiency of about two orders of its value in comparison with achieved up to now with no loss of its resolving power.