

MEASUREMENTS OF THE MAGNETIC MOMENTS
OF NUCLEAR STATES BY HYPERFINE SHIFT
OF CONVERSION LINES

A.P. Lashko, T.M. Lashko

Institute for Nuclear Research, Nat. Acad. of Sci. of
Ukraine

*(47, Nauky Ave., Kyiv 03680, Ukraine;
e-mail: lashkoa@kinr.kiev.ua)*

S u m m a r y

A procedure for the determination of nuclear magnetic moments by the hyperfine shift of lines of internal conversion electrons (ICEs) has been developed. The range of its application does not depend on the nuclear state lifetime. The technique has been applied to estimate the magnitude of the magnetic moment of the $9/2^+$ 136-keV excitation level in ^{181}Ta .