

**DETERMINATION OF AVERAGE RESONANCE PARAMETERS OF EVEN S_n ISOTOPES
FROM THE ANALYSIS OF DIFFERENTIAL NEUTRON ELASTIC SCATTERING CROSS
SECTIONS IN THE ENERGY RANGE 1 - 442 keV**

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The average resonance parameters S_0 , S_1 , R'_0 , R'_1 , $S_{1,1/2}$, $S_{1,3/2}$ were determined from experimental differential neutron elastic scattering cross sections with the help of the method developed by the authors within the framework of optical model. The parameters are found by fitting of the theoretical expressions, obtained by the authors for σ_{el} and for Legendre polynomial expansion factors of differential elastic cross sections ω_1 , ω_2 , to their experimental values in the energy range 1 - 442 keV. The analysis of the obtained average resonance parameters is carried out.