

S-MATRIX APPROACH CALCULATION
OF THE POLARIZATION CONTRIBUTION
TO THE NUCLEOSYNTHESIS CROSS-SECTION

V.P. Levashev

M.M. Bogolyubov Institute for Theoretical Physics,
Nat. Acad. Sci. of Ukraine
(14b, Metrolohichna Str., Kyiv 03143, Ukraine)

S u m m a r y

In the framework of the S -matrix approach, the influence of the electric dipole polarizability of colliding particles upon the low-energy nucleosynthesis cross-section is estimated. It is shown that the relative contribution of the polarization effects to the reaction cross-section does not exceed the quantity of the order of 0.1%.