

## 9. DIFFRACTION SCATTERING OF ${}^6\text{Li}$ IONS FROM ATOMIC NUCLEI

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Using formalism of diffraction approximation, the elastic scattering of  ${}^6\text{Li}$  ions from  ${}^{28}\text{Si}$ ,  ${}^{40}\text{Ca}$ , and  ${}^{90}\text{Zr}$  nuclei has been investigated at an incident energy of 35 and 53 MeV per nucleon. We have considered  ${}^6\text{Li}$  nucleus as a weakly-bound one that consists of two charged clusters, there are deuteron and alpha-particle. The calculated angular distributions of cross sections satisfactorily fit corresponding experimental data.