Elastic scattering measurements of ^{7}Be+^{90}Zr at sub- and near – barrier energies

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We will present a recent experiment for elastic scattering of ^{7}Be+^{90}Zr at five sub – and near-barrier energies, namely at 21.5, 22.5, 24, 27 and 28 MeV, for determining the optical potential. The experiment was performed at the *TriSol* radioactive beam facility of Notre Dame University, simultaneously with elastic scattering and breakup measurements of ^{8}B+^{90}Zr , the last performed at 28MeV. This optical potential will be used as one of the coupling potentials in our CDCC calculations for ^{8}B. Further on we will look for the resemblance of this potential either with the one exhibited by ^{7}Li or the one by ^{6}Li , extracting useful conclusions for their structure [1-3]. Preliminary data will be presented and discussed.

[1] A. Pakou *et al.*, Phys. Rev. C **69**, 054602(2004).

[2] O. Sgouros *et al.*, Phys. Rev. C **95,** 054609(2017).

[3] K. Palli *et al*., Phys. Rev. C **105**, 064609(2022).