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Halo and Core Parameters Extracted from a Data on Reaction Cross-section in the Glauber Model IVAN NOVIKOV, KEITI RUETER, Department of Physics and Astronomy, Western Kentucky University, YULI SHABELSKI, Petersburg Nuclear Physics Institute — Core and halo radii for various exotic nuclei were extracted from the experimental data on the interaction cross-section using exact expressions obtained in the Glauber theory using Markov Chain Monte Carlo approach. Here, the difference between reaction and interaction cross-sections were taken into account. The results of the experimental data analyzes on interaction cross-section of ^{11}Li , ^{16}C , ^{31}Ne and ^{37}Mg nuclei on ^{12}C target are presented.

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