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Journal of Physics: Conference Series

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Volume 590, Issue 1, 2015, Article number 012046

NUBA Conference Series 1: Nuclear Physics and Astrophysics; Adrasan Training and Application Centre Antalya; Turkey; 15 September 2014 through 21 September 2014; Code 111816

The effects of Double Folding Cluster Model Potential on some astrophysical reactions (Conference Paper)

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Abstract

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The Double Folding Cluster Model Potential is constructed using the α - cluster structure of nuclei. It can be derived by folding an α - α interaction with density distributions of α - clusters inside the projectile and target nuclei. This potential has been successfully tested on elastic scattering data of some selected nuclei. In this work, we are interested to investigate the implications of this potential on astrophysical aspects. © Published under licence by IOP Publishing Ltd.

Indexed keywords

Cluster models

Cluster structure

Density distributions

Engineering main heading: Astrophysics

ISSN: 17426588

Source Type: Journal

Original language: English

DOI: 10.1088/1742-6596/590/1/012046

Document Type: Conference Paper

Volume Editors: Balantekin A.B., Kucuk Y., Boztosun I.

Sponsors:

Publisher: Institute of Physics Publishing

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