

# Analysis of alpha-induced reactions cross section

Azni Abdul Aziz<sup>(a)</sup>, Hasan Abu Kassim<sup>(b)</sup>, Muhammad Zamrun F.<sup>(c)</sup>

<sup>(a)</sup> Physics Department, Faculty of Science, University of Malaya, 50603 Kuala Lumpur, Malaysia

<sup>(b)</sup> Kuliyah of Science, International Islamic University Malaysia, 25200 Kuantan, Malaysia

<sup>(c)</sup> Jurusan Fisika FMIPA, Universitas Haluoleo Kendari, Sulawesi Tenggara, J3232 Indonesia

Alpha induced nuclear reactions are of current interest in astrophysics. The relevant astrophysical reaction rates which are derived from the reaction cross sections are necessary input to the reaction network. In this work, we analysed several theoretical models which give better prediction of the cross sections for selected reactions.

E-mail: [azniaziz@siswa.um.edu.my](mailto:azniaziz@siswa.um.edu.my)