

Peer Review

Review of: "Projectile Excitation to the $2s2p^3P$ and 1P Autoionizing States in Swift Collisions of He-Like Carbon and Oxygen Mixed-State ($1s^2$, $1s2s\ ^3S$) Ion Beams With Helium"

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The paper has been written well but is very long and boring for the reader and seems that it could be written more briefly. The results, as presented in tables, were prepared very well and can be used for comparing with other experimental and theoretical results. The references are too many and must be decreased. The Close-Coupling method is not reliable at high impact energies due to the use of a large number of series sentences, and at these energies, the convergence of the series is a big challenge.

Has this issue been investigated?

Have the authors noted that the quantum perturbation methods' results, like the CDW-3B and CDW-4B methods, are there as theoretical results for comparing with experimental results?

At last, if the authors answer these questions, I will recommend this paper for publication.

All the best,

Reza Fathi

Attachments: available at <https://doi.org/10.32388/MCIQFR>

Declarations

Potential competing interests: No potential competing interests to declare.