

Japan Charged Particle Reaction Data Group

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Memo CP-E/004

Date: December 10, 2001
To: Distribution
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Subject: Spin-flip and non-spin-flip data

Our group compiled some data for spin-flip and non-spin-flip excitation energy spectra of ${}^6\text{He}({}^7\text{Li}, {}^7\text{Be}){}^6\text{He}$ (S.Nakayama *et al.*, Phys.Rev.Lett. **85** (2000) 262) and of ${}^6\text{Li}({}^7\text{Li}, {}^7\text{Be}){}^6\text{He}$ and ${}^7\text{Li}({}^7\text{Li}, {}^7\text{Be}){}^7\text{He}$ (S.Nakayama *et al.*, Phys.Rev.Lett. **87** (2001) 122502). We propose to add a new modifier for non-spin-flip reactions and some quantity codes. The spectra in the first paper are plotted as functions of the excitation energy of ${}^6\text{He}$ for a fixed angle of ${}^7\text{Be}$. Therefore, the quantity codes, which specify two nuclei, are also needed.

Our proposal is as follows:

Dictionary 34 (Modifiers)

NSF

Non-spin-flip

Dictionary 36 (Quantities)

, DA , , SF

Spin-flip diff. c/s d/dA

, DA , , NSF

Non-spin-flip diff. c/s d/dA

, DA/DE , , SF

Spin-flip double-diff. c/s d²/dA/dE

, DA/DE , , NSF

Non-spin-flip double-diff. c/s d²/dA/dE

, DA/DE , 4-BE-7/2-HE-6 , SF

Spin-flip double-diff. c/s d²/dA(7Be)/dE(6He)

, DA/DE , 4-BE-7/2-HE-6 , NSF

Non-spin-flip double-diff. c/s

d²/dA(7Be)/dE(6He)

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