

## Exciton-Dependent Pre-formation Probability of Composite Particles

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Abstract: In Iwamoto-Harada model the whole phase space is full of fermions. When the momentum distributions of the exciton states are taken into account, the pre-formation probability of light composite particles could be improved, and the exciton state-dependent pre-formation probability has been proposed. The calculated results indicate that the consideration of the momentum distribution enhances the pre-formation probability of  $[1,m]$  configuration, and suppresses that of  $[l>1,m]$  configurations seriously.

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Key words: pre-formation probability, pre-equilibrium emission

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