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A note on the quantum-tail effect on fusion reaction rate ALEXANDER ZUBAREV, Purdue University — A study is made of the power-law tail effect in the quantum particle distribution over momentum on the nuclear fusion reactions. Our results [1] do not support the idea of averaging the fusion reaction cross-section over the momentum distribution, postulated and used in many publications.

[1] Alexander L Zubarev, J.Phys. A: Math. Theor. 41, 312604 (2008)

Alexander Zubarev Purdue University

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