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This chapter uses the findings and conjectures of the previous two Chaps.5 and 6 regarding the tunneling to open space process of many-body systems whereby the process may be controlled.

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Dynamics of Tunneling Ionization using Bohmian Mechanics Nicolas Douguet ^{1;2} and Klaus Bartschat ¹Department of Physics and Astronomy, Drake University, Des Moines, Iowa 50311, USA and ²Department of Physics, University of Central Florida, Orlando, 32816, Orlando, USA (Dated: April 23, 2018) Recent attoclock experiments and theoretical studies regarding the strong- field ionization of atoms

Dynamics of Tunneling Ionization using Bohmian Mechanics

tunneling mechanism found without a threshold can be viewed as if the bosons “ although condensed in the well “ tunnel one-by-one and lose their coherence in the process of escaping, i.e., the system fragments in open space!

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Dynamics of Macroscopic Tunneling in Elongated BEC G. Dekel ¹, V. Farberovich , V. Fleurov¹, and A. Soffer² ¹ Raymond and Beverly Sackler Faculty of Exact Sciences, School of Physics and Astronomy, Tel-Aviv University, Tel-Aviv 69978 Israel and ² Department of Mathematics, Rutgers University, New Brunswick, NJ 08903,USA

Dynamics of Macroscopic Tunneling in Elongated BEC

A tunnel is “an excavation beneath the surface of the ground, the longer axis of which makes an angle not greater than 20 degrees to the horizontal.” A shaft is “(1) a passage made from the surface of the ground to a point underground, the longer axis of which makes an angle greater than 20 degrees to the horizontal; or (2) a pit in which ...

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