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Title:	Atoms and molecules in a confined environment
Authors:	Sathyamurthy, Narayanasami (/jspui/browse?type=author&value=Sathyamurthy%2C+Narayanasami)
Keywords:	Atoms molecules confined environment
Issue Date:	2021
Publisher:	Springer Link
Citation:	The European Physical Journal D, 75(6).
Abstract:	Soon after the discovery of quantum mechanics, several model systems were developed. One of them, perhaps the simplest, was the particle-in-a-box problem. Solutions of this model confined system revealed several aspects of a quantum mechanical system. The more confined a particle in space is, the higher is its energy. The uncertainty in its position and the uncertainty in its momentum are in keeping with the Heisenberg's uncertainty principle. That a quantum mechanical system could have a nonzero energy even at 0 K was its consequence.
Description:	Only IISERM authors are available in the record.
URI:	https://doi.org/10.1140/epjd/s10053-021-00197-2 (https://doi.org/10.1140/epjd/s10053-021-00197-2) http://hdl.handle.net/123456789/5081 (http://hdl.handle.net/123456789/5081)
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