

Example Abstract: Can Quantum-Mechanical Description of Physical Reality Be Considered Complete?

A. Einstein, B. Podolsky, and N. Rosen

Institute for Advanced Study
Princeton, New Jersey, 08543, USA

In a complete theory there is an element corresponding to each element of reality. A sufficient condition for the reality of a physical quantity is the possibility of predicting it with certainty, without disturbing the system. In quantum mechanics in the case of two physical quantities described by non-commuting operators, the knowledge of one precludes the knowledge of the other. Then either (1) the description of reality given by the wave function in quantum mechanics is not complete or (2) these two quantities cannot have simultaneous reality. Consideration of the problem of making predictions concerning a system on the basis of measurements made on another system that had previously interacted with it leads to the result that if (1) is false then (2) is also false. One is thus led to conclude that the description of reality as given by a wave function is not complete.

This is an example of an abstract. The actual paper appeared in *Physical Review*, **47**, 777, (1935). For the abstracts for the Nineteenth International Symposium on Heavy Ion Inertial Fusion, the topic should be on one of the topics featured in the Symposium: fusion target physics, ion sources, RF accelerators (including linacs, synchrotrons, storage rings, cyclotrons), induction accelerators, superconducting magnets, chamber and chamber-driver interface, technology development (e.g.: insulators, high-voltage pulsed power, RF systems, vacuum systems, accelerator alignment and non-intercepting beam diagnostics), system studies, or properties of dense, strongly coupled plasmas, including Warm Dense Matter, High Energy Density Physics: Theory, experiments, and advanced diagnostic techniques.

The abstract should be at most one page, have a 1.25 inch margin on each side and 1 inch margin on top, and be printed in Times New Roman 12-point font. The top line should be the title, followed by two line-spaces, followed by the authors, followed by one line-space followed by the institution, followed by one line-space, followed by the text of abstract, followed by one line-space, followed by an acknowledgement of support if needed. (A "line-space" is a blank line at 12-point font). Each paragraph should be indented by one-half inch. The abstract should be in pdf form and ready to print, but the source file should also be supplied in case small adjustments are necessary. It is not necessary for the abstract to fill a complete page. Please leave at least one-inch (or more) bottom margin. Do not adjust the margins of this page and you will be fine. Thank you for your contribution and for adhering to these guidelines.

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