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" Einstein Moon" , " Schrödinger Cat" , and " Quantity in Phase Space" — About Quantum Measurement (I)

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Abstract: Generalizing the idea involved in a previous paper [Commun. Theor. Phys. (Beijing, China) 41 (2004) 685], " quantity in phase space" is introduced. Thus starting from quantum mechanics, with standard criteria, the disappearing of interference in a macroscopic system is explicitly shown. Then the confusions involved in " the Einstein Moon" and " the Schrödinger Cat" are clarified, at least principally.

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