

贝尔定理

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Basic information

Chinese name:	Bell theorem	Foreign name:	Bell's theorem
Aliases:	Bell Inequality	Presenter:	John Bell
Applied Science:	Physics and Philosophy of Science		

Bell's theorem is an infeasible theorem, also known as **Bell's inequality** . This theorem is extremely important in physics and [philosophy of science](#) because it means that quantum physics must violate the principle of locality or counterfactual definiteness [1][2]. Published in 1964, Bell's theorem was named after the Irish physicist [John Bell](#).

The experimental results of Bell's theorem (BelltestExperiments) are consistent with the predictions of quantum mechanics theory and show that some quantum effects seem to travel at [superluminal speed](#) . Because of this verification result, all quantum theories classified as [implicit variable](#) theory and tested can only be limited to nonlocality. Please pay special attention to the experimental verification of all Bell's theorem that has been completed so far. No experiment can fully satisfy all the requirements of Bell's theorem (loopholesof Bell's theorem)[3]. Here, no results can give a decisive general statement.

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