Master your Physics



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Are we living in the matrix?

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No. Obviously not. It's a daft question. But, buried beneath this daft question is an extremely interesting one: is it possible to simulate the known laws of physics on a computer? Remarkably, there is a mathematical theorem, due to Nielsen and Ninomiya, that says the answer is no. I'll explain this theorem, the underlying reasons for it, and some recent work attempting to circumvent it.

Presenter: TONG, David