

### Quantum games

https://vimeo.com/359440927

## Quantum mechanics in Pop culture



## Quantum mechanics in Pop culture

"Quantum fluctuation messes with the Planck scale, which then triggers the Deutsch Proposition. Can we agree on that?" - Tony Stark (Iron man)

"There's nothing in my work that is generally known as the 'Deutsch Proposition' "- David Deutsch

It's still a great movie!!

## Quantum mechanics in Pop culture



Can physics be portrayed 'more correctly'?

## Superposition

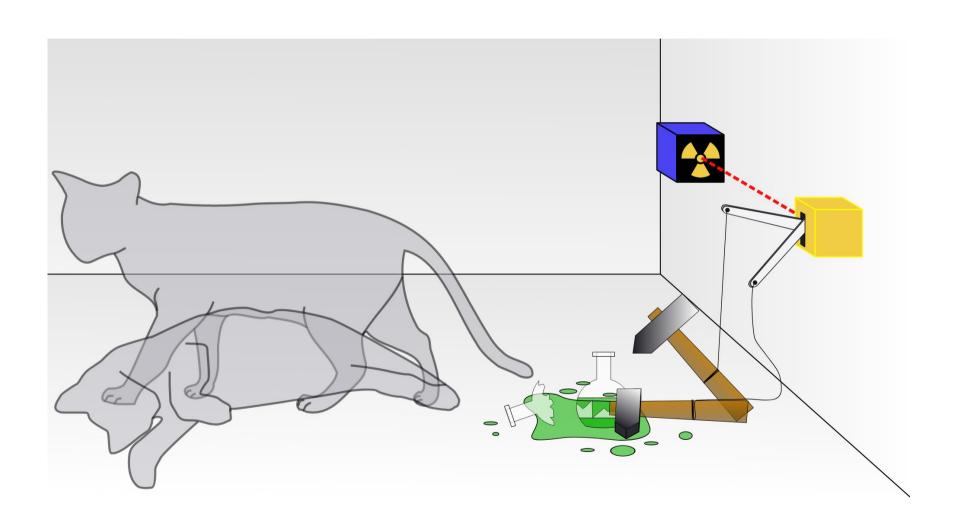


**Ghost's unstable state** 

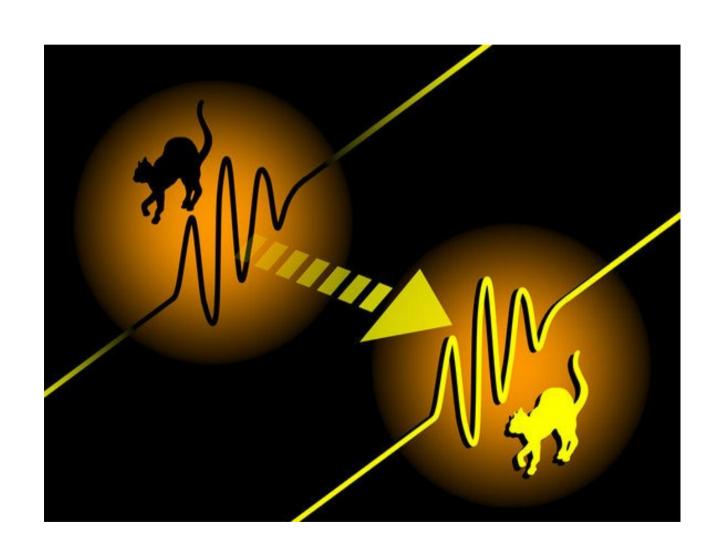
Destructive/Constructive interference is a real thing

Quantum superposition

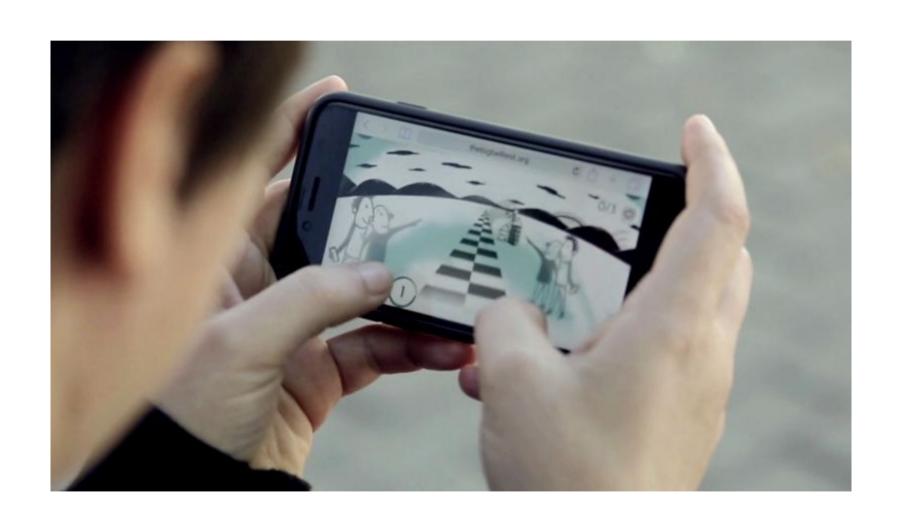
# Superposition



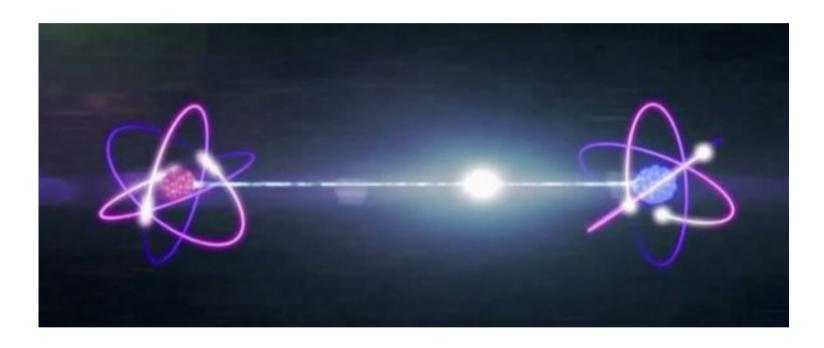
# Superposition



# Entanglement



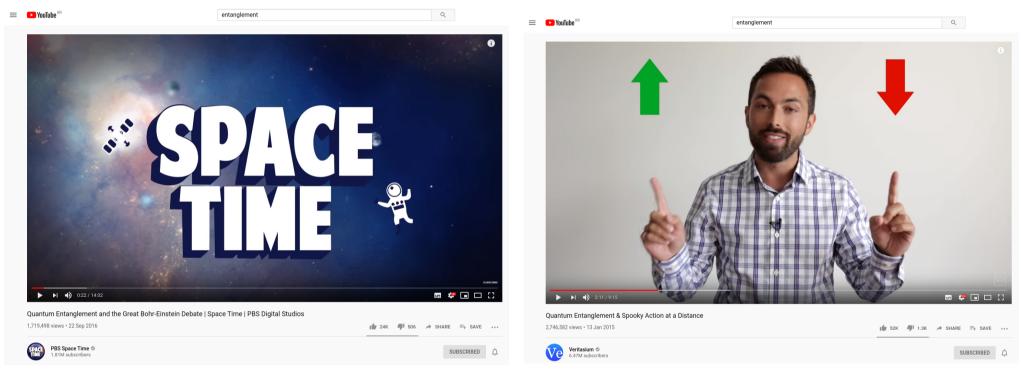
## Entanglement



Two particles become intrinsically connected Spooky action at a distance

I haven't seen a creative take on entanglement!

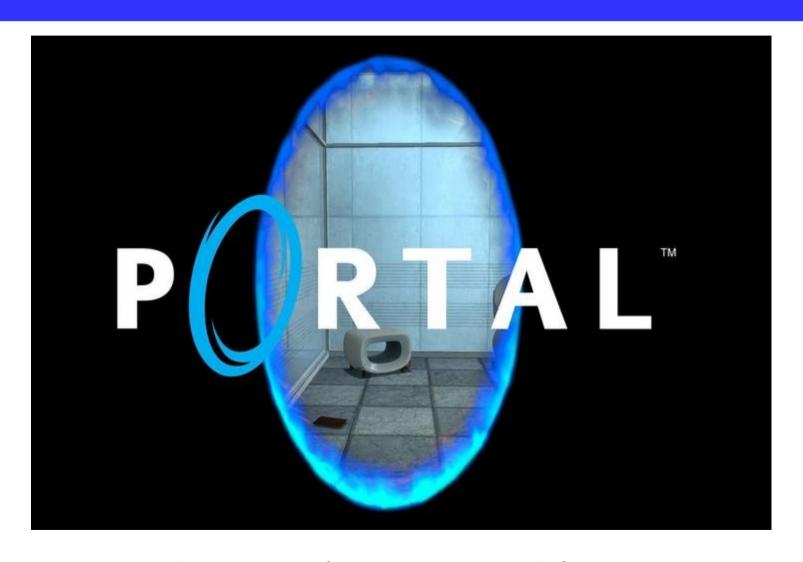
## Entanglement



**PBS** spacetime

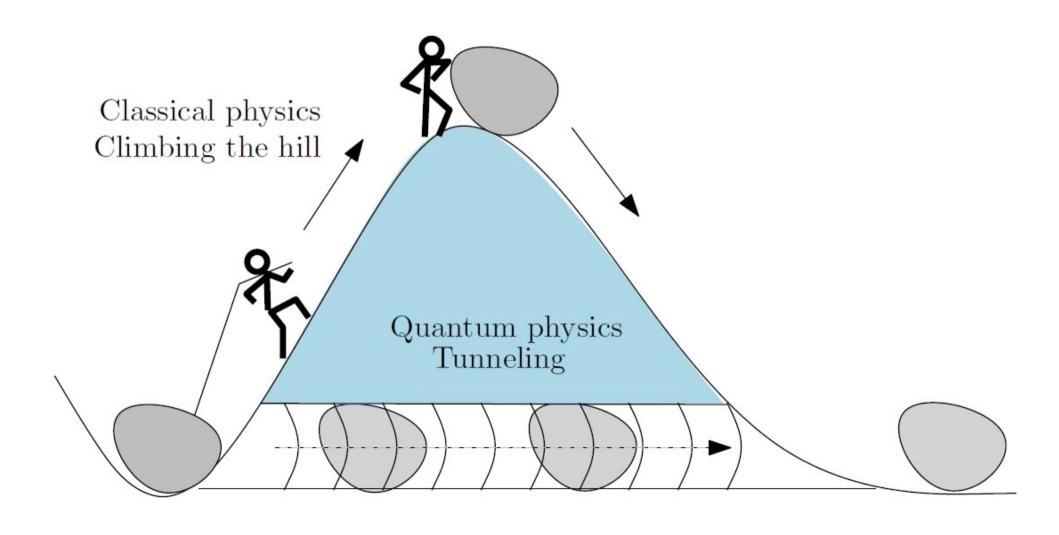
**Veritasium** 

## Tunnelling



**Teleportation = Tunnelling?** 

## Tunnelling



## Time travel?









#### Time travel?

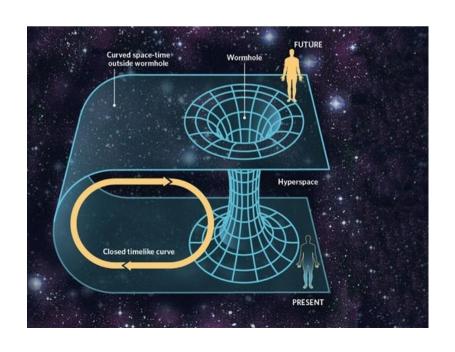
Causal order:

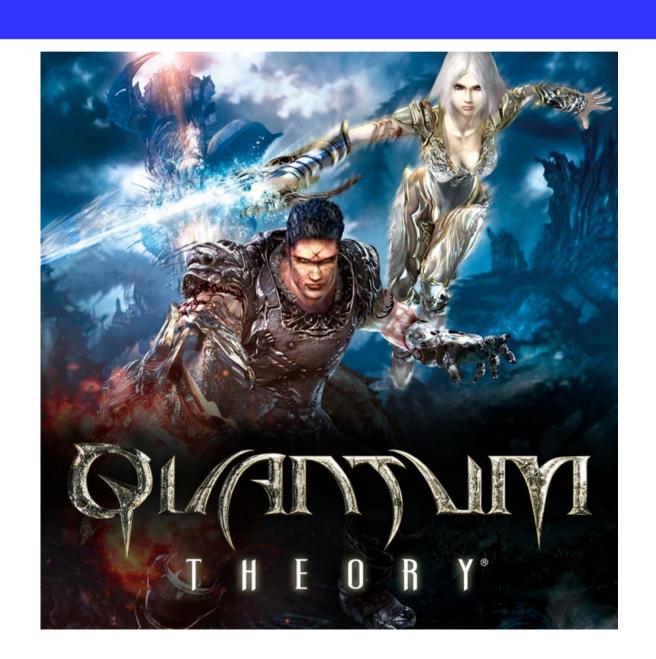
A → B or B→ A

Both at the same time?



Closed Time like curves:
Closed loops in space time
Wormhole territory





#### https://www.youtube.com/watch?v=WM8iVi8t6Nk



#### https://www.scienceathome.org/











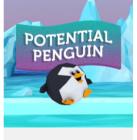




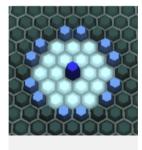












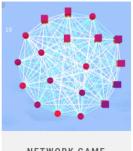
RYDBERGATOR







**OUANTUM MINDS** 



NETWORK GAME



TURBULENCE





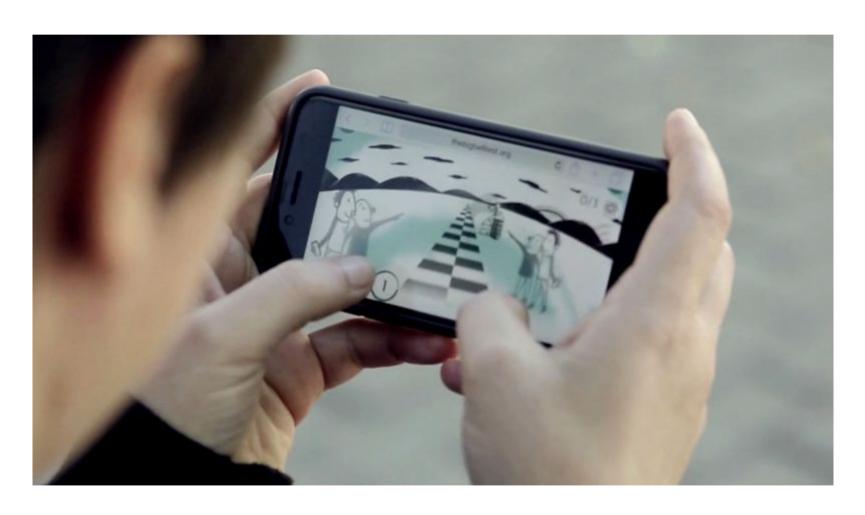






https://youtu.be/QO7GiIF6XIM

# The Big Bell test



https://thebigbelltest.org/

## The Big Bell test

nature > letters > article



#### nature

Letter | Published: 09 May 2018

## Challenging local realism with human choices

The BIG Bell Test Collaboration

Nature **557**, 212–216 (2018) | Download Citation ±

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- 1 A Publisher Correction to this article was published on 24 September 2018
- This article has been updated

https://thebigbelltest.org/

# Can you think of a game based on Quatum Mechanics?

Science is already mind bending!

**Great marketing** 

It can be educational too!

It could help do science!