

# Università degli Studi di Trieste

## Dipartimento di Fisica

# Alumnorum Colloquia

## Marco Piani

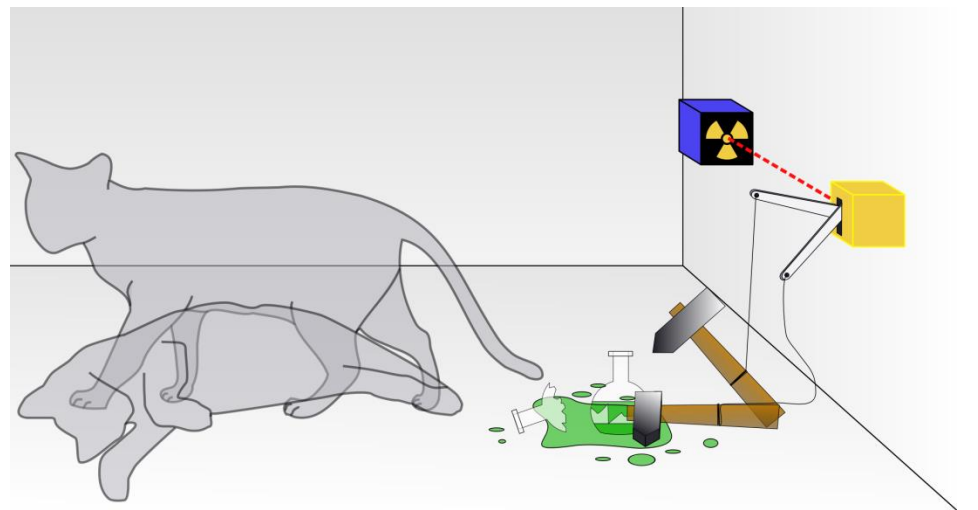
SUPA and Department of Physics, University of Strathclyde, Glasgow, U.K.

March 23, 4.30 PM - Lecture room A, F building, Physics Dept. - via Valerio, 2 – Trieste

## How I learned to Stop Worrying and Love Entanglement



Quantum entanglement was famously described by A. Einstein as giving rise to a “spooky action at a distance”. With the advent of quantum information processing, that is, with the harnessing of quantum properties to implement all kinds of tasks — involving communication, computation, measurement, ... — the status of entanglement has changed: it has moved from that of puzzling — and potentially “scary” — quantum feature to that of resource to be characterized, quantified, manipulated, and ultimately exploited. In this talk I will review some recent aspects of my research on the operational characterization of correlations, through which I learned to stop worrying and love entanglement as key concept to understand nature and quantum mechanics.



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Organizzazione a cura di: M. Girardi, E. Gozzi, G. Pastore, R. Rui, E. Vesselli

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**Everyone interested in the topic is welcome to attend**

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