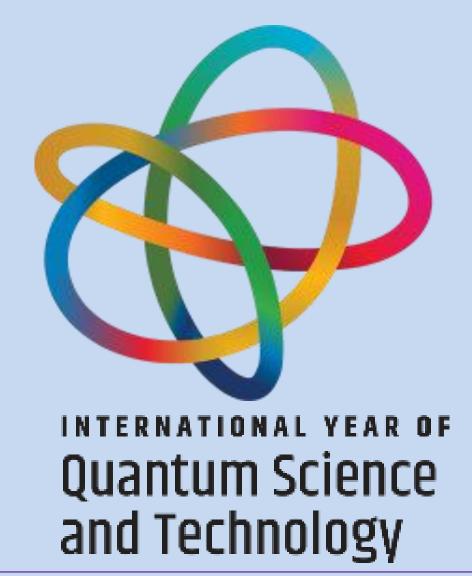


# QyERE International Year of Quantum Science 🔀 and Technology (IYQ)-2025, at TCG CREST (Kolkata, India)





#### CQuERE, TCG CREST Celebrating

### "World Quantum Day" (April 14, 2025)

Speaker:

Prof. Nicolas Gisin

University of Geneva, Constructor University Bremen, Constructor Institute of Technology Geneva



## Title: Three ways beyond Bell inequalities

The violation of Bell inequalities is arguably the most profound discovery of 20th century science. After the Nobel prize of 2022, the great enterprise, as John Bell used to say, is not over. Here we present 3 ways beyond Bell inequalities:

- 1. Network non-locality, i.e. non-locality in (quantum) networks with independent sources. In this context no inputs are necessary, opening entirely new aspects of non-locality.
- 2. Search for hidden influences, i.e. a still possible local explanation of quantum correlations, based on supraluminal influences.
- 3. Entanglement in joint measurements. Entanglement between subsystems is by now pretty well studied. However, entanglement plays also a crucial role in joint measurements.

**B** Date & Time

Venue

14<sup>th</sup> April 2025 @ 5:00 PM IST

Classroom-4, TCG CREST

Join Zoom Meeting

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<u>otcgcrest357</u>

Organized by:

CQuERE (Centre for Quantum Engineering, Research and Education), TCG CREST, Kolkata, INDIA