



# WORLD QUANTUM DAY

APRIL 14

**South Africa and the United Kingdom invite you to a panel discussion in celebration of World Quantum Day**

Prof. Sir Peter Knight  
(Emeritus Professor at  
Imperial College, UK)



Prof. Francesco Petruccione  
(Head of Quantum Research  
Group, UKZN, South Africa)



Wenmiao Yu (Co-  
founder of Quantum  
Dice, UK)



**Hosted by: Dr. Yaseera Ismail (Quantum Research Group, UKZN, 2018 Optica  
Ambassador)  
and Dr. Najwa Sidqi (IUK KTN)**

14<sup>th</sup> April 2022

15:30 to 17:00 SAST/14:30 to 16:00 BST

Online

**To register follow the link:**

[https://nithecs-ac-za.zoom.us/webinar/register/WN\\_aWHpcXHIRsmUzvtEHjrG0g](https://nithecs-ac-za.zoom.us/webinar/register/WN_aWHpcXHIRsmUzvtEHjrG0g)



# Fulfilling our quantum ambitions: Discussing research and technology efforts in quantum in South Africa and the United Kingdom

**Prof. Sir Peter Knight**



Sir Peter Knight is Senior Research Investigator at Imperial College. He retired in 2010 as Deputy Rector (Research) at Imperial but remains an Emeritus Professor. He was knighted in 2005 for his work in optical physics. Knight was the 2004 President of Optica (Optical Society of America) and a past President of the Institute of Physics. He is Editor of Contemporary Physics, Chair of the UK National Quantum Technology Programme Strategy Advisory Board, chairs the Quantum Metrology Institute at the National Physical Laboratory, was until 2010 chair of the UK Defence Scientific Advisory Council and remains a UK Government science advisor. His research centres on quantum optics and quantum technology. He has won the Thomas Young Medal and the Glazebrook Medal of the Institute of Physics, the Ives Medal and the Walther Medal and Prize of Optica, the Faraday Medal of the IET and the Royal Medal of the Royal Society.

**Prof. Francesco Petruccione**



Francesco Petruccione studied Physics at the University of Freiburg i. Br. and received his PhD in 1988 and the “Habilitation” degree (Dr. rer. nat. habil.) in 1994. In 2004 he was appointed Professor of Theoretical Physics at the University of KwaZulu-Natal (UKZN), in Durban (South Africa). In 2007 he was granted the South African Research Chair for Quantum Information Processing and Communication. At present, he is the interim Director of the National Institute for Theoretical and Computational Sciences, Pro Vice-Chancellor Big Data and Informatics of UKZN, and Professor Extraordinary at the Department of Physics of the Stellenbosch University. Prof Petruccione is an elected member of the Academy of Sciences of South Africa, a Fellow of the Royal Society of South Africa and a Fellow of the University of KwaZulu-Natal.

**Wenmiao Yu**



As a co-founder of Quantum Dice, winner of the inaugural Oxford StEP Ignite competition, Wenmiao has been involved in the Oxford quantum technology spinout right from formation. Quantum Dice is pioneering the development of the world’s fastest, compact and self-certifying Quantum Random Number Generator to better secure encryption protocols and ensure long-term data security. Wenmiao is passionate about driving the commercialisation of emerging technologies and was most recently an Enterprise Fellow (the youngest across all cohorts) at the Quantum Technology Enterprise Centre, the UK’s only quantum incubator based at the University of Bristol.