THE 183RD NOBEL SYMPOSIUM

PHYSICS OUTREACH PROGRAMME 2022 18 October to 02 November Republic of South Africa

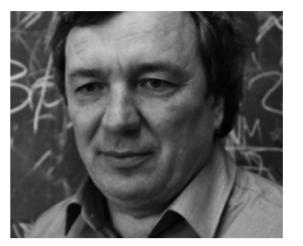
	DATE	TIME	SPEAKER	VENUE	LECTURE TITLE
	18 Oct	17h00- 18h30	Yin-Zhe Ma /UKZN	UWC	Cosmology: A golden era
	20 Oct	13h00- 14h00	Viatcheslav Mukhanov/ LMU, Munich	UCT	The quantum universe
	20 Oct	18h00- 19h30	Erik Aurell/KTH	SU	The mystery of black hole entropy
	21 Oct	16h30- 19h00	Thifhelimbilu Daphney Bucher/CPUT	NMU	Rise and take your position
			Neil Turok		Universe (virtual)
	21 Oct	11h00	Francesco Petruccione/SU	AIMS	Entanglement: From theory to quantum computers
	24 Oct	16h30- 18h00	Sir Michael Berry/Bristol	SU	How quantum physics democratised music: a meditation on physics and technology
	31 Oct	13h00- 14h30	Neil Turok/Edinburgh	UKZN	Universe (virtual)
			Armita Nourmohammad/ Washington		Learning the shape of the protein universe
	31 Oct	18h00- 19h50	Mogens H. Jensen/ Copenhagen		Complexity in science
			Angelo Vulpiani/Rome		Predicting the future: an old problem from a modern perspective
	01 Nov	10h00- 12h00	Erik Aurell/KTH		Fluctuation relations
			Luca Gammaitoni / NiPS Lab, Perugia		Why it is difficult to find something if you do not know what you are looking for
	02 Nov	16h00- 17h00	Armita Nourmohammad/ Washington	Wits	Learning the shape of the immune and protein universe

Nobel in Africa is a STIAS Initiative in partnership with Stellenbosch University, under the auspices of the Nobel Foundation and the Royal Swedish Academy of Sciences with funding from the Knut & Alice Wallenberg Foundation. These Public Lectures are organised as part of the Nobel Symposium in Physics on Predictability in Science in the Age of Artificial Intelligence, the first in the Nobel in Africa – NOBEL SYMPOSIA Series.



Professor Yin-Zhe Ma

Full Professor of Astrophysics, University of KwaZulu-Natal, South Africa Member of Academy of Science of South Africa



Professor Viatcheslav Mukhanov

Full Professor of Physics Head of the Astroparticle Division at the Ludwig-Maximilians-Universität, Munich, Germany.



Professor Erik Aurell

Professor of Theoretical Biological Physics at Royal Institute of Technology at Stockholm (KTH).



Doctor Thifhelimbilu Daphney Bucher

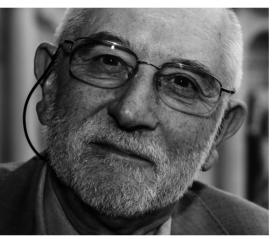
Lecturer and Researcher at Cape Peninsula University of Technology



Professor Francesco Petruccione

Professor of Quantum Computing, School of Data Science and Computational Thinking, Stellenbosch University

Interim Director National Institute for Theoretical and Computational Sciences (NITheCS)



Professor Michael Berry

Melville Wills Professor of Physics (Emeritus) at Bristol University



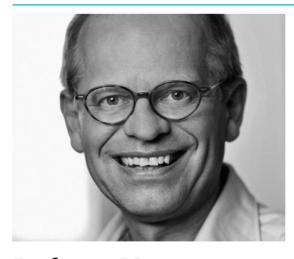
Professor Neil Turok

Inaugural Higgs Chair of Theoretical Physics, the University of Edinburgh Director Emeritus and Distinguished Visiting Research Chair, Perimeter Institute



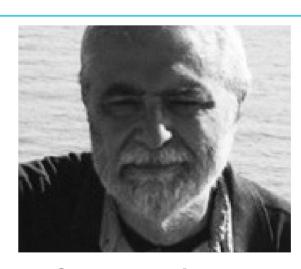
Professor Armita Nourmohammad

Assistant Professor of Physics at the University of Washington Affiliate investigator, Fred Hutchinson Cancer Research Center, Seattle



Professor Mogens Hogh Jensen

Professor of Complex Systems and Biophysics, Niels Bohr Institute, University of Copenhagen President of Royal Danish Academy of Science and Letters (until 2020)



Professor Angelo Vulpiani

Full Professor, University of Rome



Professor Luca Gammaitoni

Director of the Noise in Physical System Laboratory (NiPS Lab) at the Physics Department of the Università di Perugia, Italy.



















