

# Nobel Foundation's Nobel Symposia coming to Africa for the first time

Issued by [Stone](#)

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Nobel in Africa is a STIAS initiative in partnership with SU and is hosted under the auspices of the Nobel Foundation and the Royal Swedish Academy of Sciences, with funding from the Knut & Alice Wallenberg Foundation. Through the initiative, STIAS will become the first institution outside Scandinavia to host Nobel Symposia on behalf of the Nobel Foundation since the symposium series was initiated in 1965.

## THE 183<sup>RD</sup> 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	Vlatcheslav 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	Thiðhelimblu Daphney Bucher/CPUT	NMU	Rise and take your position
21 Oct	11h00	Neil Turok	AIMS	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		Universe (virtual)
31 Oct	18h00-19h00	Armita Nourmohammad/Washington		Learning the shape of the protein universe
01 Nov	10h00-12h00	Mogens H. Jensen/Copenhagen		Complexity in science
01 Nov	16h00-17h00	Angelo Vulpiani/Rome	UKZN	Predicting the future: an old problem from a modern perspective
02 Nov	16h00-17h00	Erik Aurell/KTH		Fluctuation relations
02 Nov	16h00-17h00	Luca Gammaitoni/NPS 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



**Professor Yin-Zhe Ma**  
Full Professor of Astrophysics, University of Heidelberg, South Africa  
Member of Academy of Science of South Africa



**Professor Vlatcheslav Mukhanov**  
Full Professor of Physics  
Head of the Astrophysics Division at the Ludwig-Maximilians-Universität, Munich, Germany



**Professor Erik Aurell**  
Professor of Theoretical Biology of Physics at Royal Institute of Technology (KTH), Stockholm (KTH)



**Doctor Thiðhelimblu 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  
South African National Institute for Theoretical and Computational Sciences (NICTS)



**Professor Michael Berry**  
Maclaurin Professor of Physics, Emmanuel at Bristol University



**Professor Neil Turok**  
Inaugural Higgs Chair of Theoretical Physics, the University of Edinburgh  
Queen's Research Fellow 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 H. Jensen**  
Professor of Quantum Systems and Bioquantum, Niels Bohr Institute, University of Copenhagen  
Researcher of Royal Danish Academy of Sciences and Letters (2022)



**Professor Angelo Vulpiani**  
Full Professor, University of Rome



**Professor Luca Gammaitoni**  
Director of the Center for Physical Systems Laboratory (CPS Lab) at the Physics Department of the University of Perugia, Italy



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 SYMPOSIUM Series.










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The first symposium in the series will be held at STIAS in Stellenbosch from 24 to 28 October. It will focus on the area of Physics, and more specifically the topic '[Predictability in science in the age of artificial intelligence](#)'.

The Nobel Symposia are ordinarily closed sessions where some of the world's top scientists deliberate on new research discoveries and developments in their field. The STIAS-SU-hosted Physics symposium, however, will include an outreach element that will see participants delivering public lectures at universities and research institutes countrywide as a way of taking science to a wider audience. The public outreach lectures are aimed at university academic staff and students to inspire the next generation of scholars on the continent, while also raising awareness of the latest scientific discoveries among the general public.

Ahead of the launch event and the start of the 183rd Physics symposium next week, members of the media are invited to participate in the outreach lectures to get a sense of physicists' current work (programme follows below).

In conversation with internationally renowned and celebrated scientists and global change agents, the Nobel in Africa symposia seek to celebrate science and share breakthroughs with the scholarly, public and private sectors in South Africa and Africa. The aim is to provide an international forum to promote the sharing of innovative, high-level scholarship and demonstrate the importance of scientific research for the future of the continent and the world.

STIAS has a special focus on Africa and a long-term commitment to nurture future generations of scholars and intellectual leaders on the continent. Our ethos is to foster ongoing dialogue between Africa's brightest minds and their global counterparts.

### **183rd NOBEL SYMPOSIUM: Physics – outreach programme**

Several public outreach lectures will take place both before and after the Physics symposium. See the full outreach programme below and attached:

18 Oct, 5pm–6.30pm, University of the Western Cape

Public outreach lecture by Yin-Zhe Ma (University of KwaZulu-Natal)

20 Oct, 1pm–2pm, University of Cape Town

Public outreach lecture by Viatcheslav Mukhanov (LMU, Munich)

20 Oct, 6pm–7.30pm, Stellenbosch University

Public outreach lecture by Erik Aurell (KTH Royal Institute of Technology)

21 Oct, 4.30pm–7pm, Nelson Mandela University

Public outreach lecture by Neil Turok (University of Edinburgh), with an introductory talk by Thifhelimbilu Daphney Bucher (Cape Peninsula University of Technology)

21 Oct, 11am–12pm, African Institute for Mathematical Sciences (AIMS)

Public outreach lecture by Francesco Petruccione (Stellenbosch University)

24 Oct, 4.30pm–6pm, Stellenbosch University

Public outreach lecture by Sir Michael Berry (University of Bristol)

31 Oct, 1pm–2.30pm, University of KwaZulu-Natal

Public outreach lecture by Neil Turok (University of Edinburgh) and Armita Nourmohammad (University of Washington)

31 Oct, 6pm–7.50pm, University of KwaZulu-Natal

Public outreach lecture by Mogens H. Jensen (University of Copenhagen) and Angelo Vulpiani (National Institute for Nuclear Physics, Rome)

1 Nov, 10am–12pm, University of KwaZulu-Natal

Public outreach lecture by Erik Aurell (KTH Royal Institute of Technology) and Luca Gammaioni (NiPS Lab, University of Perugia)

2 Nov, 4pm–5pm, University of the Witwatersrand

Public outreach lecture by Armita Nourmohammad (University of Washington)

▪ **Unlocking your benefits - Medical aid tax credits and subsidies, by Medshield** 22 Apr 2024

▪ **Medical aid cover for physical rehabilitation and physical therapy in South Africa, by Medshield** 28 Mar 2024

▪ **Understanding digestive health and the gut microbiome, by Medshield** 25 Mar 2024

▪ **The AEL shares how young South Africans can be custodians of our eco-sensitive future** 31 Jan 2024

▪ **Mapping Conservation Ecology as a multi-disciplinary and integrated field of study - The AEL** 25 Jan 2024

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