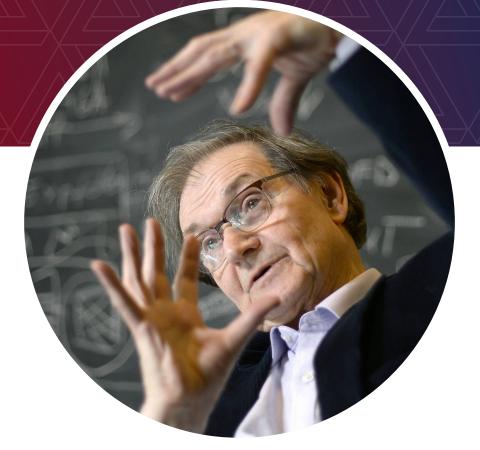


THE UNIVERSITY OF ARIZONA **Center** for **Consciousness Studies**





Science & **ROGER PENROSE**

On the Occasion of his 90th Birthday and Nobel Prize

August 3 – 6, 2021

9:00 am - 12:30 pm - PST/Arizona

4 Online Sessions

FREE REGISTRATION

British physicist Sir Roger Penrose is widely acclaimed for fundamental advances in understanding the universe. He shared the 2020 Nobel Prize in physics for having shown that black holes are predictions of Einstein's general relativity. Roger has also proposed a solution to the measurement problem in quantum mechanics ('objective reduction', 'OR') which, he further suggests, is the origin of consciousness, leading to a theory of brain function ('orchestrated objective reduction', 'Orch OR'). And Roger's concept of Cyclical Conformal Cosmology ('CCC') posits a serial, eternal universe, with the Big Bang preceded by previous aeons. The conference will cover these 4 major inter-related areas of Roger's work.

Tuesday August 3, 2021

9:00 am to 12:30 pm PST

Overview

Sir Roger Penrose (Nobel Laureate) 9:00 am - 10:30 am

Black Holes

Reinhard Genzel (Nobel Laureate) 10:30 am – 11:15 am

Roger Blandford 11:15 am – 12:00 noon

Discussion 12:00 noon – 12:30 pm

Wednesday August 4, 2021

9:00 am to 12:30 pm PST

Quantum Measurement – **Objective Reduction (OR)**

Ivette Fuentes 9:00 am - 9:45 am

Hendrik Ulbricht 9:45 am – 10:30 am

Dirk Boouwmeester 10:30 am – 11:15 am

Thursday August 5, 2021

9:00 am to 12:30 pm PST

Consciousness - Orch OR

Stuart Hameroff 9:00 am - 9:45 am

Greg Scholes 9:45 am - 10:30 am

Alysson Muotri 10:30 am – 11:15 am

Panel and Discussion - Quantum biology of microtubules 11:15am – 12:30 pm

·Jack Tuszyński (Chair) •Aarat Kalra Travis Craddock •Aristide Dogariu •M. Bruce Maclver Anirban Bandyopadhyay

Friday August 6, 2021

9:00 am to 12:30 pm PST

Pre-Big Bang Universe – **Cyclical Conformal Cosmology**

Paul Tod 9:00 am – 9:45 am

Philip Stamp 11:15 am – 12:00 noon

Discussion 12:00 noon – 12:30 pm **Brian Keating** 9:45 am - 10:30 am

Krzysztof Meissner 10:30 am – 11:15 am

Vahe Gurzadvan 11:15 am – 12:00 noon

Discussion 12:00 noon – 12:30 pm

Sponsored by:

UArizona Center for Consciousness Studies - Stuart Hameroff, Director • Dr. Mani Bhaumik, UCLA • Alvin J. Clark Foundation