Nobel Laureate Professor Richard Feynman was one of the most influential scientists of the last century who came to dominate much of physics in the years after World War II. His ‘Feynman diagrams’ to compute scattering amplitudes revolutionised the field of elementary particle physics and is used in many other fields of quantum physics. His formulation of quantum mechanics in terms of ‘path integrals’ is the modern way that is mostly used today. A completely independent thinker who was only steered by his own curiosity, his interests went beyond physics, also into biology and arts etc.

The conference will feature Feynman’s contributions in physics and beyond, and also discuss where the fields are today.

In addition, an exhibition titled “All Possible Paths: Richard Feynman’s Curious Life” will take place at the ArtScience Museum from 20 October 2018 to 3 March 2019.

OUR DISTINGUISHED SPEAKERS INCLUDE:

Plenty of Room at the Bottom
Frank Wilczek
Nobel Laureate in Physics 2004
MIT; Tsung-Dao Lee Institute

Path Integrals
Cristiane Morais Smith
University of Utrecht

Feynman Diagrams and Amplitudes
Lance Dixon
SLAC National Accelerator Laboratory

Feynman and Quarks
George Zweig
MIT

Feynman and Experiments
Maria Spiropulu
Caltech

Feynman and Art and Science
Robbert Dijkgraaf
IAS Princeton

Curtis Callan Jr
Princeton Univ.

Feynman and Biology
Michelle Feynman
Daughter

Personality
Curtis Callan Jr
Princeton Univ.

Feynman and Experiments
Maria Spiropulu
Caltech

CO-CHAIRS:
Frank Wilczek
Nobel Laureate in Physics 2004
MIT; Tsung-Dao Lee Institute

Lars Brink
Chalmers University of Technology

Kok Khoo Phua
Institute of Advanced Studies, NTU

ORGANISERS:

SUPPORTING ORGANISATION:

For more information, please visit IAS website at www.ntu.edu.sg/ias