Professor John P. Preskill
California Institute of Technology (Caltech)

2014 SPECIAL LECTURE

by JOHN P. PRESKILL (CALTECH)
Director of the IIAS Jerusalem Winter School in Theoretical Physics

PUTTING WEIRDNESS TO WORK: QUANTUM INFORMATION SCIENCE

The quantum laws governing atoms and other tiny objects seem to defy common sense, and information encoded in quantum systems has weird properties that baffle our feeble human minds. John Preskill will explain why he loves quantum entanglement, the elusive feature making quantum information fundamentally different from information in the macroscopic world. By exploiting quantum entanglement, quantum computers should be able to solve otherwise intractable problems, with far-reaching applications to cryptology, materials science, and medicine. **Preskill is less weird than a quantum computer, and easier to understand.**

John P. Preskill is an American theoretical physicist and the Richard P. Feynman Professor of Theoretical Physics at the California Institute of Technology (Caltech).

WEDNESDAY, JANUARY 8, 2014
at 12:00
Mathematics Building, Lecture Hall 2,
Einstein Institute of Mathematics,
Edmond J. Safra Campus, Givat Ram, Jerusalem
www.as.huji.ac.il