



复旦大学物理系 物质科学报告

Time: 2:00pm, Tuesday, 2019.11.05

Location: Room C108, Jiangwan Physics Building

Title: Primordial Black Holes from Inflation and Gravitational Waves

Speaker: Misao Sasaki

Kavli IPMU, University of Tokyo .

Abstract: It is now widely believed that there was inflation in the very early universe. Inflation is the origin of all the structures in our universe, including ourselves. Here I present a model of inflation that can also produce a number of tiny black holes, primordial black holes, that may constitute the cold dark matter of the universe. Then I discuss that this model may be tested by future space gravitational wave interferometers such as LISA.



Prof. Misao Sasaki received B.Sc. degree in Physics from the Kyoto University in 1976, and Ph.D. degree in Science from the same university in 1981. In 1983, he joined Department of science, Kyoto University, as a researcher. In 1986, he joined Institute of theoretical physics, Hiroshima University, as an Assistant Professor. He became a professor at Osaka University from 1995 to 2003. Since 2003 he became a professor at Kyoto University.

Prof. Misao Sasaki became the director of the Yukawa Institute of Theoretical Physics, Kyoto University from 2013 to 2017. From 2018, he joined University of Tokyo, as the Deputy Director of Kavli IPMU.