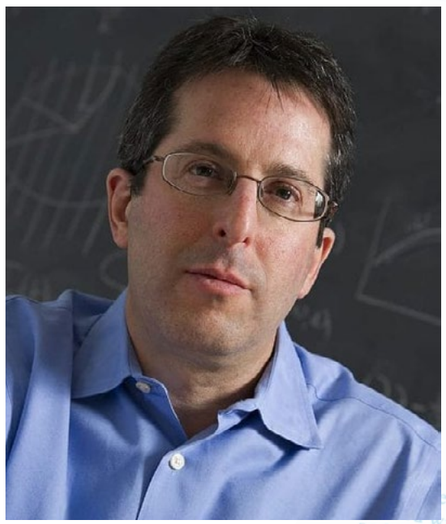
HERTZ LECTURE.

DESY Lecture on Physics 2024

Consensus and confusion in cosmology

Prof. Dr. Marc Kamionkowski
Johns Hopkins University



Thursday, September 26, 17:30 h
DESY main auditorium
https://webcast.desy.de

The past quarter century has been a period of rapid progress in our understanding of the origin and evolution of the Universe. We now have a simple mathematical model that can account for the gross features of our Universe as well as detailed information from precise measurements and observations. The model requires, though, several ingredients, such as dark matter and dark energy, that are not to be found within our current understanding of the fundamental laws of physics. There has also emerged, in the past few years, some inconsistencies between various measurements. In this talk, I will describe the triumphs of our current cosmological model, as well as its shortcomings.

Heinrich Hertz
1857 Hamburg-Karlsruhe-Bonn 1894

Deutsches Elektronen-Synchrotron DESY
A Research Centre of the Helmholtz Association