

Physikalisches Kolloquium Universität Kiel Sommersemester 2019

Dienstag, 25. Juni 2019

Prof. André Moitinho de Almeida
(SIM Lissabon)

“To the Milky Way and Beyond Gaia – A New Age of Astrometry”

The Universe is made of galaxies. It is thus clear that understanding how galaxies form and evolve is a central quest in astronomy. The galaxy in which we live, the Milky Way, is a giant spiral galaxy - a particularly interesting type. Being inside the Milky Way allows us to study details of its workings with a resolution unthinkable of for other galaxies. However, this super-detailed inside view also creates difficulties. On the one hand, it is hard to have a global perspective of the Milky Way (as we have for external galaxies). On the other hand, with the advent of large surveys by ground and space telescopes, we face the challenge of dealing with overwhelming quantities of data.

In this talk, we will go on a trip through our current knowledge of the Milky Way and its big open questions: From our solar neighborhood with its streams of stars and bubbles caused by supernova explosions, to the giant black hole in the centre of our galaxy and the observations of two thousand million stars by the Gaia space mission for building an unprecedented map of the Milky Way and beyond.

Der Vortrag beginnt um **16:15 Uhr** im **Hans-Geiger-Hörsaal (LS13-R.52)**
des Physikzentrums.

Ab **16:00 Uhr** werden **Kaffee** und **Tee** angeboten.

W.J. Duschl
für die Dozenten der Physik

Gastgeber: Prof. Duschl