

Mathematisch – Naturwissenschaftliche Fakultät
der Universität zu Köln
- Der Dekan -

Einladung

zu der am Dienstag, den 26. Juni 2012, um 16.45 Uhr
im Hörsaal III der Physikalischen Institute, Zülpicher Straße 77

stattfindenden öffentlichen

Antrittsvorlesung

von Herrn

Prof. Dr. Lucas Labadie

(I. Physikalisches Institut)

über das Thema

The quest of life outside our solar system: why and how?

With more than 700 exoplanets detected so far, a long-standing question has been answered: yes, planets exist outside our solar system, and are not uncommon. The spectroscopy of these objects is the next big goal, in particular for exo-Earths in the habitable zone of Sun-like stars which physicochemical conditions could be propitious to the emergence of primitive forms of life. However, performing direct spectroscopy of Earth-like planets – as the key step of the characterization process – requires collecting the light from the very dim planets themselves. After briefly summarizing our current knowledge of the field, I will explain how a better understanding of exoplanetary systems – and ultimately the challenge of exo-Earths spectroscopy – could be supported by advances in modern instrumentation.

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