

# Physikalisches Kolloquium

Thursday, 05.06.14, 17:15, HS 100  
Reception with coffee & cookies 16:45



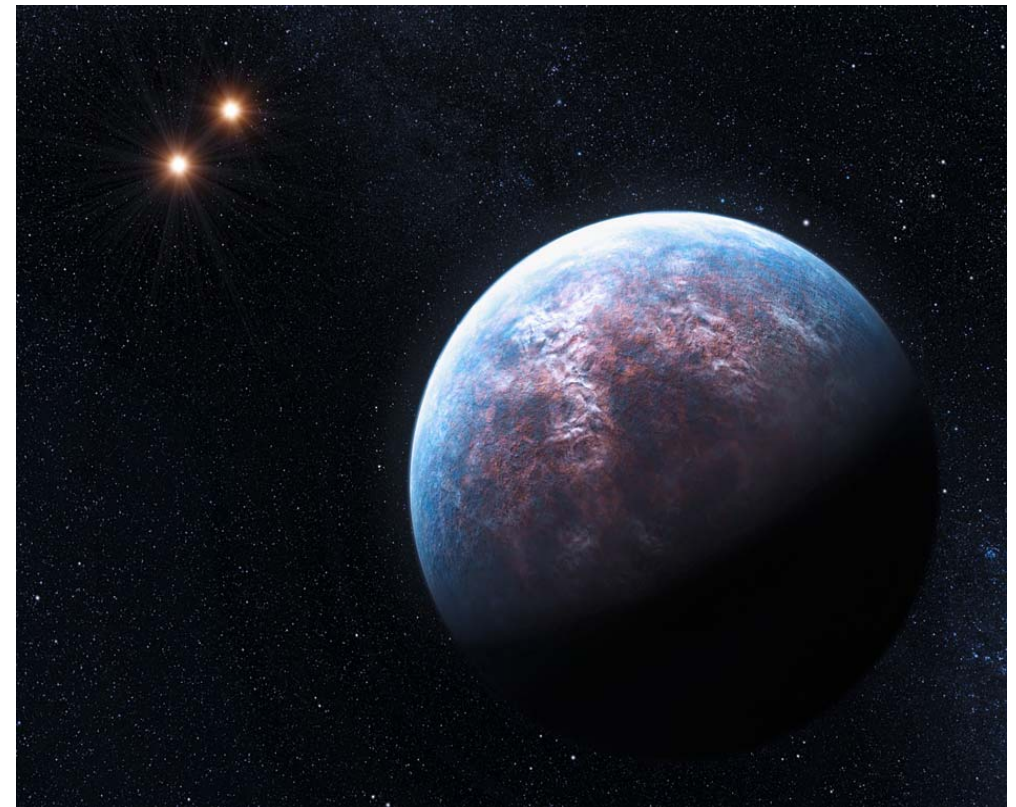
Prof. Dr. Ansgar Reiners,

Georg-August-Universität Göttingen

***Astro-Spectroscopy in the Lab and  
on the Sky: Dynamos, Metrology,  
and Exo-Earths***

## Abstract

Our understanding of stars and extrasolar planets is advancing with the steady improvements of high precision astro-spectroscopy. The success of extrasolar planet research pushes programs to search for smaller, more Earth-like planets, and emphasizes the need to understand their hosts. A major bias in the search for planets and, at the same time, a determining factor of whether a planet might be habitable is the magnetic activity of the host stars. Understanding activity as well as the search for planets can be conducted through high-precision spectroscopic experiments. I will summarize recent observational results for stellar dynamos and the quest for Exo-Earths, and give an overview of our laboratory efforts to increase precision in astrophysical measurements.



All of you interested in physics are cordially invited!