

Detection and characterization of habitable planets

P. von Paris
Institut für Planetenforschung, Deutsches Zentrum für Luft- und Raumfahrt (DLR), Rutherfordstr. 2, 12489 Berlin, Germany

Abstract

The detection of terrestrial planets in the habitable zone (HZ) and the subsequent search for habitable conditions and signatures of biological activity on these planets are among the most interesting, but also most challenging, goals of exoplanet science. After reviewing the status of the search of HZ planets, this talk will focus on model simulations of terrestrial exoplanet atmospheres. The results of these model simulations will then be used to discuss the detectability of spectral signatures of habitability or even of life.