



**Keck**  
INSTITUTE  
FOR  
SPACE  
STUDIES

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Image Credit: NASA / GSFC

The Keck Institute for Space Studies  
presents a short course on:

# **Extrasolar Space Weather: The Hidden Hand in Exoplanet Evolution**

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**Monday, November 6, 2023**

**8:15 A.M. Coffee**

**8:45 A.M. - 12:30 P.M. Short Course**

**Salvatori Seminar Room  
3rd Floor, South Mudd Building  
California Institute of Technology**

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**Dr. David Brain - University of Colorado, Boulder**

**Cosmic Showers:**

**How Particle Space Weather Changes Planets**

**Dr. Antígona Segura -**

**Universidad Nacional Autónoma de México**

**A Surge in Intensity:**

**The Impact of Extreme Space Environments**

**Dr. Julián Alvarado-Gómez -**

**Leibniz Institute for Astrophysics Potsdam**

**The Fundamentals:**

**Physical Origins of Particles in Circumstellar Space**

**Dr. Christina Cohen - Caltech**

**View from the Inside: The Solar System's Particle Environment**

**Dr. Rachel Osten - Space Telescope Science Institute**

**Peering Out:**

**The Frontiers of Observing Extrasolar Space Weather**

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No registration is required for this short course.  
Seating is limited and is available on a first come, first served basis.  
An informal lunch is provided for all attendees.