



Das Institut für Physik

Institutsbereich Geophysik, Astrophysik und Meteorologie

lädt zu folgendem Vortrag

im Rahmen des **Astrophysikalischen Kolloquiums** ein:

## **"The expansion of the SONG network – a high precision radial velocity instrument"**

Mads Fredslund Andersen

Stellar Astrophysics Centre, Aarhus University, Denmark

The Stellar Observations Network Group (SONG) was initiated in 2006 to be a network of small robotic telescopes dedicated to observe single targets for extensive periods of time if needed. The main driver of the network was the interest in studying stars using asteroseismology. The space missions of Kepler, CoRoT, K2 and TESS have brought the analysis of stellar oscillations to a completely new level and matured the field of asteroseismology to a degree where other and more detailed studies are now needed to develop the stellar models even further. SONG aims to do exactly that using radial-velocity measurements where the stellar background noise around the frequency of maximum power in the power spectrum is much lower compared to photometry.

In this talk I will present the status of the project both in terms of number of telescopes in the network and how they operate and also the robotic software that conducts the observations. I will at the end present a few selected results obtained using SONG.

Time: **Wednesday, March 24, 2021, 16:00 CET (st!)**

Meeting: <https://unigraz.webex.com/meet/paul.beck>

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