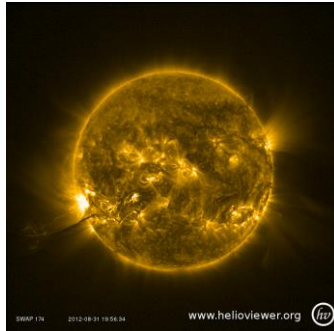




Job Opening: Full-Time Researcher

To study Rapid Oscillations in the solar corona detected with EUI onboard Solar Orbiter



SOLAR PHYSICS @ ROYAL OBSERVATORY OF BELGIUM

The Royal Observatory of Belgium (ROB, <http://www.observatory.be/>) is a Belgian federal institute in the green outskirts of Brussels (Ukkel). The Operational Directorate "Solar physics and space weather" (<https://www.sidc.be/>) is an international group of about 45 members, including scientists, engineers and support staff. It offers a unique environment with space for creativity and initiative.

SOLAR ORBITER AND EUI

ROB is the Principal Investigator institute of the Extreme Ultraviolet Imager (EUI) onboard Solar Orbiter. Since its launch in 2020, Solar Orbiter has used Venus and Earth gravity assist maneuvers to reach its present orbit, with perihelion inside Mercury's orbit. In the next years, Solar Orbiter will repeat its very close passages to the Sun and will reach more and more elevated orbits, allowing the first observation ever of the Sun's poles. Using EUI's unparalleled high resolution Extreme Ultraviolet (EUV) images of the solar corona, researchers have discovered decayless oscillations of unprecedented small amplitudes and periodicities.

Some of ROB's EUI-related activities can be found at <https://www.sidc.be/eui/>.

DESCRIPTION OF TASKS

ROB opens a one-year postdoc position for the study of coronal waves in Solar Orbiter/EUI. The position is a collaboration between the Centre for mathematical Plasma Astrophysics (CmPA, Prof. T. Van Doorsselaere) of KULeuven and the Royal Observatory of Belgium (ROB). Frequent travels between ROB and KULeuven are envisioned.

The new collaborator will be involved in the detection and characterization of oscillations in EUV data.

WE ASK

A good candidate would combine several of the following characteristics:

- Ph.D. or master degree in exact or applied sciences
- a scientific curiosity and eagerness to increase our understanding of solar physics
- autonomous researcher with a sense of initiative
- a pragmatic approach in problem solving
- team player
- extensive experience with the analysis of observations by contemporary solar telescopes in space or on the ground
- programming skills, a fast learner in computer problems/solutions
- experience with solar physics, in particular with the analysis of oscillations in EUV images, is an important plus

WE OFFER

We offer a 1-year contract. Salary, social security, pension scheme and working conditions are according to Belgian civil servant regulations (SW11). This includes a flexible system of working hours and the possibility to telework.

HOW TO APPLY

A complete application includes a motivation letter and a full CV in PDF format (with details of previous work & study career). Please send as soon as possible and no later than 2023 March 15, your application, expression of interest, or questions to David.Berghmans@oma.be. A contract start on 2023 August 15 is foreseen.

If your master was awarded outside of Belgium, the Netherlands and the Grand-Duchy of Luxembourg, you will need a certificate to demonstrate the equivalence of your degree (see https://www.belgium.be/en/education/equivalence_of_diplomas) before we can offer you a contract.

