

**OBSERVING TIME PROPOSAL FORM 2024B**  
**for the 1.5 m solar telescope GREGOR**  
**at the Observatorio del Teide, Tenerife, Spain**

For observing phase from July - November 2024

Submit the completed form to: [kis\\_tac@leibniz-kis.de](mailto:kis_tac@leibniz-kis.de) (German time KIS/AIP/MPS)  
or <http://research.iac.es/00CC/solar-cat/> (Spanish time)

**Deadline: 21 June 2024, 12:00 (CET)**

For more information consult:

https:  
[//www.leibniz-kis.de/en/observatories/gregor/observations-with-gregor/](https://www.leibniz-kis.de/en/observatories/gregor/observations-with-gregor/)  
and  
<https://www.leibniz-kis.de/en/observatories/gregor/gregor-instruments/>

For questions please contact KIS info mail:

[kis\\_tac@leibniz-kis.de](mailto:kis_tac@leibniz-kis.de)

The applicant is requested to adhere to the following rules:

1. The GREGOR steering committee will offer **on-site or remote observations from July until November, all days including weekends**. The PI will be able to conduct observations on-site or remotely with the support of assistants present at the observatory in Tenerife or remotely assisting from Germany.
2. The PI is committed to cooperate archiving the raw data, and to make Quick Looks available as soon as possible, typically in less than 1 month after recording the data;
3. The PI agrees to follow the rules in the instructions for observers, which include safety precautions to avoid endangering the telescope and the requirement to read manuals before the observations.
4. The PI commits her/himself to submit an observing report according to a given template within two weeks after the campaign focusing on the telescope and instrument performance. For efficient use of telescope time, the technical staff needs feedback about the performance of the telescope and instruments.
5. The PI agrees that the data are openly available after a proprietary phase of 12 months. For PhD theses, the proprietary phase is prolonged to 2 years.
6. The PI is strongly encouraged to share the data with consortium members and with external scientists on a collaborative basis.
7. All publications based on GREGOR data have to acknowledge GREGOR according to the template on our website. The GREGOR papers to be cited are Kleint et al. A&A 641, A27 (2020) and the relevant papers from the special AN issue 'Astronomical Notes, Volume 333, 2012, Number 9' including Schmidt et al. 2012, AN 333, p796 (DOI: 10.1002/asna.201211725) and the instrumentation papers.

## 1 Title of Project:

## 2 Applicants

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**Principal Investigator:**

**Affiliation:**

**Email address:**

**Co-Investigators(s):**

**Affiliation(s):**

**Email address(es):**

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- We/I want to apply for time under the KIS Time. Send to [kis\\_tac@leibniz-kis.de](mailto:kis_tac@leibniz-kis.de)
  - We/I want to apply for time under the German Time (AIP/MPS). Send to [tac@leibniz-kis.de](mailto:tac@leibniz-kis.de)
  - We/I want to apply for Spanish time. <http://research.iac.es/00CC/solar-cat/>
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The PI is a PhD student and the proposal is for data for the thesis.

I require a computer account at OT.

I already have a computer account at OT.

I am a first time or inexperienced user. (Please contact [kis\\_tac@leibniz-kis.de](mailto:kis_tac@leibniz-kis.de) in case of questions, and in case of using HiFI+ also [cdenker@aip.de](mailto:cdenker@aip.de) before submitting the proposal.)

### 3 Justification

#### Scientific Objectives of Observing Time

##### 3.1 Scientific Relevance

(Please give a statement of the scientific objectives and relevance of the requested observing campaign and describe your observing plan in some detail (instrument, spectral line, other instrument specific details). Please make sure that all necessary information is provided and that no identifying information about the PI/team is included.)

##### 3.2 Previous data

(If you were awarded observing time for a similar topic previously, summarise previous results or show the progress of your current analysis and justify why you need more observing time. If archive data are available, please justify why they cannot be used for your study.)

### 4 Observing requests:

#### 4.1 Setup requested:

(Please include the required instrument setup description and fill the checklist table based on available instruments (see below)

- GRIS: Slit-scanner or IFU (Image slicer) spectropolarimetry at wavelengths 1.0-1.3 or 1.5-1.8 microns.
  - Fast context imaging below 900 nm (below 650 nm if using H-alpha Slitjaw). Specify any required filters.
  - AO: GREGOR has a new AO mode (H-alpha-AO) which allows to lock the AO off-limb on prominences (if the prominence shape permits). This mode is offered on a shared-risk basis and allows to use of HIFI H-alpha 656 narrowband and GRIS He 1083 in the slit or IFU mode.
  - ZIMPOL: In collaboration with IRSOL, high-precision spectropolarimetric observations with the ZIMPOL polarimeter are offered in service mode for projects requiring a short observing time (up to a few hours). The available spectral range is 4250 Å - 6800 Å and the spectral window is a few Angstroms (depending on order and wavelength).
  - Please state whether you plan to use the SJ imaging system.
- If applicable, describe any non-standard setup. Please also list the foreseen observing mode (FOV, exposure times, duration of raster, required S/N, targets, ... )

	1.0-1.3 micron	1.5-1.8 micron	1.0 micron + 8542 Å
<b>GRIS/Slit</b>			
<b>GRIS/IFU</b>			N/A
	HiFi+	BBI	N/A
<b>Fast context imaging</b>			
	without H $\alpha$	with H $\alpha$	N/A
<b>Slitjaw imaging system</b>			
	900nm	650nm	N/A
<b>VIS/IR Beamsplitter</b>			
	Normal AO	H $\alpha$ AO	Both AO
<b>Adaptive Optics</b>			
	Yes	No	N/A
<b>ZIMPOL</b>			

Mark with an X in the box based on the required instrumentation.

#### Amount of days requested:

Please justify your choice

Please list foreseen observing coordination with other telescopes.

**Impossible Dates:**

(An attempt will be made to accommodate your “impossible time” in the schedule. Please also specify if coordinated observations are planned. There is absolutely no guarantee for success of this attempt.)