

OBSERVING TIME PROPOSAL FORM 2020B
for the Vacuum Tower Telescope (VTT)
at the Observatorio del Teide, Tenerife, Spain

For the observing season October, 2020 - November, 2020. Submit the completed form to east-tac@astro.su.se (SOLARNET and CCI time)

Deadline: 19 September 2020, 23 UT

For more information consult:

<http://www.leibniz-kis.de/en/observatories/vtt/observing-with-vtt/>

VTT observing time is allocated under the following conditions. The successful applicant is obliged to obey the following rules:

1. 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.
2. SOLARNET: The PI agrees that the data are openly available after a proprietary phase of 12 months.
3. The PI is strongly encouraged to share the data with consortium members and with external scientists on a collaborative basis.
4. In selecting the observing target and observing sequence the PI is engaged to efficiently use the telescope time. This implies to take data for other proposals in case the PI has accomplished her/his scientific goals or in case the proposed observing target is not available.
5. All publications based on VTT data have to acknowledge VTT.
6. The PI commits her/himself to submit an observing report according to a provided 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.

1 Title of Project:**2 Applicants**

Principal Investigator:**Affiliation:****Email address:****Co-Investigators(s):****Affiliation(s):****Email address(es):**

We/I want to apply for time under the CCI International Time Program (ITP).

We/I want to apply for time under SOLARNET.

The PI is a PhD student and the proposal is for data for the thesis.

3 Justification

Scientific Objectives of Observing Time

(Please give a brief statement of the scientific objectives of the requested observing campaign and describe your observing plan in some detail (instrument, spectral line, other instrument specific details). This information will be used to evaluate the scientific merit and the observatory's general capability to conduct the type of research you intend to do. Please make sure that all necessary information is provided.)

Former projects

(If this proposal is a continuation of a former project, please provide a list of previous program titles and a brief progress report on a separate sheet. Please include references to publications which resulted from your earlier observing programs. Apropos: Please let us know about any publication that results from VTT data by sending the references to Jo Bruls (bruls@kis))

4 Observing requests:

Amount of time requested:

Please justify your choice.

Coordinated observation: (Please indicate if you are planning coordinated observations with other facilities.)

Impossible Dates: (In order to make most efficient use of observing time in view of personnel limitations, the number of reconfigurations of the telescope and its instrumentation will be limited. We therefore will group observing requests of similar technical nature into combined periods. An attempt will be made to accommodate a very limited amount of "impossible time" in the schedule. There is absolutely no guarantee for success of this attempt. Please keep this in mind when specifying your restrictions above these lines. Please keep also in mind the possibility of having your observations made by a colleague in cases of time conflicts. Thank you for your cooperation.)

4.1 Instruments

A description of the VTT instrumentation can be found at:

<http://www.leibniz-kis.de/en/observatories/vtt/vtt-instrumentation/>

Please read it carefully and then specify the needs for your observing run in the following. Please give an overview and describe additional needs at the end of this form in Sect. ???. Some of the instruments and cameras can be combined and used simultaneously.

4.1.1 Optical lab space and/or Other instruments []

In case you plan to use other instruments, please describe your needs in detail here. The VTT offers an optical lab, where you can mount your own instrumental setup. Solar light is fed-in via an adjustable 45 degree mirror in the first floor (the same way as TESOS receives light). For questions consult Thomas Kentischer (tk@kis).

4.1.2 HELLRIDE []

Please see <http://www.leibniz-kis.de/en/observatories/vtt/hellride/> for capabilities.

4.1.3 Echelle Spectrograph

Echelle grating: Only the chromospheric grating is offered in 2020B

63° Standard 62° Chromosphere 55° IR

(The number gives the blaze angle in degrees. Put a question mark if you don't know!)

Spectral lines that you want to observe simultaneously:

You can observe up to 3 lines simultaneously. List the combination(s) that you want to use.

Set	Wavelength [nm]	Order	Remarks
1a			
1b			
1c			
1d			
2a			
2b			
2c			
2d			

I already have a predisperser mask.

I need a new predisperser mask.

Please help me calculating mask parameters.

I use the predisperser with mirror (no grating) and use filters (cf. Sect. ??).

Slit width: The image scale on the entrance slit is 4.49 arcsec/mm.

40 μm 60 μm 80 μm 100 μm (0.45") 150 μm
 no slit (mirror)

Detectors in focal plane of spectrograph:

4.1.4 Large spectral range (low dispersion) spectrograph

High-resolution spectrograph with a spectral resolution of about 100 000. It provides a much wider spectral range, about 4.5 nm. Please contact Thomas Kentischer (tk@kis) for more information.

4.2 Additional needs

4.2.1 Interference Prefilters:

#	Central wavelength [nm]	FWHM [pm]	remarks
1			
2			
3			
4			
5			

4.2.2 Beam Splitter Spectr/Lab:

- CaK Beam splitter IR/VIS Beam splitter
 50/50 % Beam splitter Mirror

4.2.3 Computational environment

- I need a computer account for

Full Name	User name

If you need dedicated IP-numbers for your own devices, please contact Peter Caligari (cale@kis, Tel.: ++49-761-3198-220)

4.3 Overview and technical description

Give an overview and describe your plans, technical remarks, and wishes below. Also indicate your additional needs as e.g., CCDs.

- We want to make simultaneous measurements with different devices/cameras.