Hamburg, Guanajuato and Liège, 3 November 2022

# Call for Proposals for TIGRE

Dear Colleagues,

We are pleased to invite you to respond to the ninth regular call for proposals for observations to be performed with the TIGRE telescope (formerly known as the Hamburg Robotic Telescope).

TIGRE is a 1.2m, fully robotic telescope, installed at the observatory of La Luz (latitude: +21°03'11.3", longitude: 101°19'29.2") near Guanajuato. The telescope is equipped with the refurbished HEROS echelle spectrograph. TIGRE is a private facility operated by a consortium consisting of teams from the University of Hamburg (Germany), the University of Guanajuato (Mexico), and the University of Liège (Belgium).

TIGRE offers a unique opportunity to perform astrophysical studies that require a regular, sometimes long-term access to a medium-sized telescope equipped with a spectrograph with a resolving power of R=20,000. The location of the observatory allows observations at an airmass of less than 2 for objects at declinations between roughly -39° and +81°. The expected numbers of usable nights at the La Luz site are 220 per year with a clear seasonal variation. Normally, TIGRE's on-target exposure time is about 1300 hours per year.

**Members from each partner team** can submit proposals for observations to be performed on the fraction of the telescope time of their team[1].

It is anticipated that the different observing programs will be carried out in an "interleaved" fashion. Because of unpredictable weather conditions, no guarantee can be given that an approved observation will actually be executed.

Proposals should be submitted as a single pdf file prepared only with the LaTex template attached to this message. The deadline for submission is **14 December 2022 at 24:00 UT**.

Submission should be done exclusively via e-mail to your institute board member (see addresses below).

Beside a cover page, valid proposals should include a brief science case (maximum 1 page) as well as a technical feasibility section (maximum 1 page) plus an optional extra page for figures or references. The cover page should include a three-line non-technical abstract (suited for non-expert readers and for public outreach). The proposal should notably address the following issues:

- What are the scientific motivations for the observations to be carried out?
- Why is TIGRE important for this program?

[1] These fractions are 75% for UHH, 15% for UG and 10% for ULg.

- Are there other observing facilities involved (e.g. space-borne)? If yes, how likely is it that the applicants will get the time on these other facilities?
- How does the program fit into the general research activities of the team? Is this project relevant for a student's thesis work?
- Is this project done in collaboration with another TIGRE partner team?

The proposal must also specify the category of the project. Proposal categories include *normal* programs, *surveys* (without time constraints), *monitoring* observations (with loose time constraints), *phase-critical* (periodic observing windows), *time-critical* (fixed times) observations and *long-term* projects (extending over several years to a decade). Applications for the continuation of previously approved long-term projects should provide a status report of the project.

All valid proposals submitted by the time of the deadline will be first reviewed for the science and feasibility within a time allocation committee internal to each institute[2]. Each partner institute submits a number of proposals to the TIGRE board that corresponds to approximately 130% of its theoretical share, including 40% with the highest priority, 80% with medium priority and 10% filler targets (with short exposure times). This preliminary list of proposals will then be reviewed by the board for its relevance to the TIGRE, and to solve possible conflicts. The successful proposers will have to fill in a web form on the TIGRE archive site to provide the practical information needed for a correct implementation of their program(s). This so-called Phase 2 will start immediately after the announcement of the results of the review. **Providing the Phase 2 information by 20 January 2023 at the latest is mandatory for the observations to be executed.**

For further rules about data rights and publications, we refer to the Memorandum of Understanding that was signed by the representatives of the partner teams in September 2012.

Key milestones of this call:
Due date of proposals and of notifications for carried-over proposals: 14 December 2022 (24:00 UT)
Announcement of TAC and board decisions: before end of December 2022.
Deadline for Phase 2 submission: 20 January 2023 (24:00 UT)
Probable start of AO 9 observations: 1 February 2023

Yours sincerely,

Jürgen Schmitt (UHH, jschmitt@hs.uni-hamburg.de),

Klaus-Peter Schröder (UG, kps@astro.ugto.mx),

Gregor Rauw (ULg, g.rauw@uliege.be).

[2] This TAC may consult external experts if that's deemed appropriate.