

ISAAC NEWTON GROUP OF TELESCOPES

Roque de Los Muchachos Observatory, La Palma

ANNOUNCEMENT OF OPPORTUNITY FOR OBSERVING TIME IN SEMESTER 2013A: 1st FEBRUARY – 31st JULY, 2013

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1. Proposal submission and deadlines

Information about applying for time on the 4.2-m William Herschel Telescope (WHT) and the 2.5-m Isaac Newton Telescope (INT) can be found on:

http://www.ing.iac.es/astronomy/observing/INGinfo home.html

Each observing proposal should be submitted to the time-allocation committee (TAC) of one of the three operating countries: the Netherlands, Spain or the United Kingdom. Proposals that qualify for OPTICON time should be submitted directly to OPTICON. Advice on how to submit proposals, and submission deadlines, are given on the web pages of each TAC:

Netherlands (PC) http://www.nwo.nl/nwohome.nsf/pages/NWOP 5VVJ3N Eng

Spain (CAT) http://www.iac.es/cat/pages/cat-nocturno/en/overview.php

UK (PATT) http://www.scitech.ac.uk/Our+Research/4509.aspx

PATT form: http://www.ing.iac.es/astronomy/observing/patt/PATT Appl.html

OPTICON <u>http://www.astro-opticon.org/fp7/tna/</u>

Principal Investigators (PIs) employed or studying in a Dutch, Spanish or UK institution at the time of submission should submit their proposal(s) to the Dutch, Spanish or UK TAC respectively. Proposals submitted to a national TAC by a PI employed or studying in one of the other partner countries may be assessed by that TAC or, at its discretion, may be passed on to the appropriate national TAC.

Each national TAC will also accept proposals from a PI based in countries other than the partner countries. Such international proposals (which must be written in English) may be assessed by that TAC, or at its discretion may be passed to an international TAC comprising members of the three national TACs.

For both the WHT and INT, applicants are encouraged to submit proposals for large time allocations. This applies particularly to the INT, where ING can only support a small number of instrument changes.

The OPTICON scheme fosters pan-European access to the ING telescopes, under the auspices of the EC-funded Research Infrastructure Programme. OPTICON time is available to eligible astronomers based in EU member states and associated states, and EC funding may be available to cover travel, accommodation and subsistence costs. Applications from new users and young researchers, and astronomers based in countries without similar research facilities, are strongly encouraged. International proposals which meet OPTICON's criteria of eligibility, but which are submitted to and awarded telescope time by the national TACs, do not qualify for OPTICON financial support.

2. Common-user instruments (WHT and INT)

The instruments available on the WHT and INT in 2013A are listed below:

WHT:

Instrument Description

ISIS Medium-resolution long-slit CCD spectroscopy, polarimetry

ISIS/QUCAMs Spectroscopy with high time resolution and/or of faint objects (L3 CCDs)

<u>LIRIS</u> Near-IR imaging (4-arcmin field) and long-slit spectroscopy, multi-object (slit masks)

spectroscopy, polarimetry

ACAM High-throughput CCD imaging (8-arcmin field) and low-resolution long-slit

spectroscopy

Prime-focus imager CCD imaging over 16-arcmin field

NAOMI/INGRID Near-IR imaging (40-arcsec field) with or without natural-guide-star adaptive optics

(AO), and with or without coronagraphy (OSCA)

NAOMI/OASIS Integral-field (up to 10 arcsec) CCD spectroscopy with or without natural-guide-star AO

AF2/WYFFOS is not offered in 2013A, to allow implementation of a number of upgrades that should deliver a significant improvement in acquisition accuracy and system throughput. We expect AF2 to be available again in 2013B. The WYFFOS spectrograph will be available with the INTEGRAL fibre system throughout the upgrade period.

INT:

Instrument Description

Low-resolution long-slit spectroscopy
WFC CCD imaging over 33-arcmin field

Notes on individual instruments:

ISIS. The default CCDs for ISIS are a thinned, blue-sensitive 4kx2k e2v detector (EEV12) on the blue arm, and a deep-depletion, high quantum efficiency, exceptionally low-fringing 4kx2k e2v detector (Red+) on the red arm. In addition, low-light-level CCDs (commonly known as L3-CCDs or EMCCDs) are available for each arm of ISIS. These 1024x1024 cameras, QUCAM2 and QUCAM3, provide high-speed spectroscopic capability (to about 10Hz) with very little dead time and essentially zero read noise. EMCCDs have distinctive features and optimising their use depends critically on the scientific goals.

LIRIS. LIRIS offers imaging, imaging polarimetry, long-slit and multi-object spectroscopy and spectropolarimetry in the near-infrared (0.9-2.4 microns). The process of slit-mask preparation, manufacture and installation takes a minimum of eleven weeks, and the last step requires the LIRIS cryostat to be warm. Pls awarded time in multi-slit mode are strongly encouraged to initiate the design of their slit masks on publication of the telescope schedules. Information about slit-mask preparation is available on:

http://www.ing.iac.es/astronomy/instruments/liris/public_liris_mos.pdf

ACAM. ACAM has a 2kx4k deep-depletion, low-fringing, high-QE CCD, and provides high-throughput imaging with a wide range of filters over a field 8.3 arcmin in diameter, and low-resolution spectroscopy with a VPH disperser. Most of ING's optical filters can be mounted in ACAM. ACAM is available permanently except when an instrument is mounted at prime focus.

Adaptive Optics. The WHT's natural-guide-star AO module, NAOMI, can be used with either the integral-field spectrograph OASIS or the near-IR imager INGRID. An un-cooled coronagraph, OSCA, can be deployed in the light path to INGRID. AO observations are carried out in service mode by ING staff.

IDS. The IDS 235-mm camera is offered with a choice of two detectors: the deep-depletion, low-fringing e2v RED+2 CCD (the default) and the EEV10 CCD. A request for use of the EEV10 CCD should be justified in the proposal.

WFC. The WFC is offered at the default rotator position angle of 180 degrees. When compelling scientific justification is provided in the observing proposal, other rotator angles (0, 90 or 270 degrees) can be offered for the duration of the run only. Changes to rotator angle during a run are not permitted.

For an overview of the instrumentation currently available on the WHT and INT, including links to the instrument home pages and contact email addresses of the instrument specialists, see:

http://www.ing.iac.es/astronomy/observing/instruments.html

3. Visitor instruments (WHT)

Applicants wishing to submit proposals to use an established visitor instrument on the WHT should contact the relevant instrument contact in the first instance.

InstrumentContactGHaFaSJohn Beckman, jeb@iac.esJoan Font, jfont@iac.esINTEGRALEvencio Mediavilla, emg@iac.esPN.SNigel Douglas, ndouglas@astro.rug.nl

SAURON Team, sauron_webmaster@strw.leidenuniv.nl

<u>Ultracam</u> Vik Dhillon, Vik.Dhillon@sheffield.ac.uk
Tom Marsh, t.r.marsh@warwick.ac.uk

Pls considering a proposal to deploy a visitor instrument which is new to the WHT should email the ING Director (Marc Balcells, balcells@ing.iac.es) well in advance of the proposal deadlines stating their intent, and should also submit a Technical Appraisal form. Further information on the protocol to be followed for submitting proposals to deploy new visitor instruments, and a link to the Technical Appraisal form, are available on:

http://www.ing.iac.es/astronomy/observing/NewVisitorInstruments.html

4. Observer support at the telescope

A summary of the observer support available at the telescope can be found on:

http://www.ing.iac.es/astronomy/planning/support.html

Astronomical support will be provided during the first evening, and part of the first night, of each WHT and INT run, and will include an introduction to the telescope, instrumentation and data-acquisition systems, and safety issues. The support astronomer (SA) will be on-call at the Residencia throughout the first night. The WHT Observing Support Assistant (OSA) provides all-night, year-round operator and engineering support at the telescope.

Manual changes to the configuration of an instrument during an observing run (e.g. installation of a filter, dichroic or grating) will be accommodated if they were explicitly requested in the observing proposal, and confirmed with the SA well in advance of the run. These changes will be made by ING staff, and must not be made by visiting observers at either the WHT or INT. At the WHT, such changes can be made during the night by the OSA (but may incur significant observing overheads). At the INT, such changes can only be made during normal working days, when appropriately-trained staff are available. Requests for configuration changes not requested in the telescope proposal will be handled on a best-efforts basis.

5. Observer experience

Inexperienced WHT and INT observers must be accompanied by an experienced observer. 'Inexperienced' here means unable, alone, to make efficient (and safe) use of the observing night, whether from general lack of observing experience, or from lack of experience with the specific techniques to be used.

In addition, it is essential that INT observers have considerable end-to-end observing experience with medium-sized telescopes. INT observers are responsible for all aspects of operation, from opening the dome in the evening, and operating the telescope and instrumentation throughout the night, to parking the telescope and closing the dome at the end of the night or in the event of deteriorating weather conditions.

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14th August 2012