



**ISAAC NEWTON GROUP OF TELESCOPES**  
Roque de Los Muchachos Observatory, La Palma

**ANNOUNCEMENT OF OPPORTUNITY FOR OBSERVING TIME  
IN SEMESTER 2014B: 1<sup>st</sup> August, 2014 – 31<sup>st</sup> January, 2015**

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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](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. Proposers who qualify for OPTICON trans-national access time are encouraged to submit their proposals 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/financiering/onze-financieringsinstrumenten/ew/isaac-newton-group-of-telescopes/isaac-newton-group-of-telescopes.html>

**Spain (CAT)**            <http://www.iac.es/cat/pages/cat-nocturno/en/requesting-time.php?lang=EN>

**UK (PATT)**              <http://www.stfc.ac.uk/1506>  
PATT form: [http://www.ing.iac.es/astronomy/observing/patt/PATT\\_Appl.html](http://www.ing.iac.es/astronomy/observing/patt/PATT_Appl.html)

**OPTICON**                <http://www.astro-opticon.org/fp7-2/tna/>

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.

The Spanish and UK TACs 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 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 are shown on:

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

and are summarised below. Please direct any queries about individual instruments to the relevant ING instrument specialists (contact details on the above link):

### WHT:

Instrument	Description
<a href="#">ISIS</a>	Medium-resolution long-slit spectroscopy, polarimetry.
<a href="#">ISIS/QUCAMs</a>	Spectroscopy with high time resolution and/or of faint objects (L3 CCDs).
<a href="#">LIRIS</a>	Near-IR imaging (4-arcmin field) and long-slit spectroscopy, multi-object (slit masks) spectroscopy, spectropolarimetry and imaging polarimetry. PIs awarded time in multi-slit mode are strongly encouraged to initiate the design of their slit masks on publication of the telescope schedules.
<a href="#">ACAM</a>	High-throughput imaging (8-arcmin field) through broad- and narrow-band filters, and low-resolution long-slit spectroscopy. Observations can be made with ACAM at any time, except when an instrument is mounted at prime focus.
<a href="#">AF2</a>	Multi-object (150 fibres) medium-resolution spectroscopy over a 40-arcmin field. Recent improvements in the target-acquisition procedure, and a better characterisation of field distortion at WHT prime focus, have significantly increased the accuracy of fibre positioning on targets and, correspondingly, instrument throughput.
<a href="#">Prime-focus imager</a>	Imaging over an 18-arcmin field.
<a href="#">NAOMI/INGRID</a>	Near-IR imaging (40-arcsec field) with or without natural-guide-star adaptive optics (AO), and with or without coronagraphy ( <a href="#">OSCA</a> ).
<a href="#">NAOMI/OASIS</a>	Integral-field (up to 10 arcsec) spectroscopy with or without natural-guide-star AO.

### INT:

Instrument	Description
<a href="#">IDS</a>	Low-resolution long-slit spectroscopy. The default detector for IDS is the Red+2 CCD. A request for use of the EEV10 CCD should be justified in the proposal.
<a href="#">WFC</a>	Imaging over a 33-arcmin field. The WFC is offered with a fixed 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.

## 3. Visitor instruments (WHT)

Applicants wishing to submit proposals to use an established visitor instrument on the WHT should in the first instance contact the relevant person listed below:

Instrument	Contact
<a href="#">GHaFaS</a>	John Beckman, jeb@iac.es
<a href="#">INTEGRAL</a>	Evencio Mediavilla, emg@iac.es
<a href="#">PN.S</a>	Magda Arnaboldi, marnabol@eso.org
<a href="#">SAURON</a>	SAURON Team, sauron_webmaster@strw.leidenuniv.nl
<a href="#">Ultracam</a>	Vik Dhillon, Vik.Dhillon@sheffield.ac.uk Tom Marsh, t.r.marsh@warwick.ac.uk

PIs 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](mailto: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 (apart from runs with established visiting instruments), 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. Adaptive-optics observations are carried out in service mode by ING staff.

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 specified 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 specified 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. This lack of experience will not adequately be compensated by the start-of-run training provided by observatory support staff.

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.

ING relies on student supervisors, and experienced members of proposing teams, to ensure that less-experienced observers prepare adequately for their observing runs, before travelling to La Palma.

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18th February 2014