



UNIVERSITETET I OSLO

KUNNGJØRING AV STILLING

POSITION AS ASSOCIATE PROFESSOR OF ASTROPHYSICS (WITH PRIORITY TO SOLAR PHYSICS)

is available at the Institute of Theoretical Astrophysics, University of Oslo

Further information from: Head of Department, Prof. Per B. Lilje, tel.: (+47)22856517, e-mail: per.lilje@astro.uio.no

Pay grade: 57 – 67 (416 100 – 500 900 NOK), depending on qualifications and seniority

Closing date for application: 1 May 2008

REF. NO. XXXX

Four sets of the application (marked with REF.NO. XXXXX), including curriculum vitae, a complete survey of education and previous posts with certified copies of examination and employment certificates, a list of publications (overview of all publications), a complete survey and a brief account of those works that shall be the particular object of qualitative assessment with these works enclosed (the total should not exceed 10), two references and a folder providing an overview of other qualifications with documentary evidence should be forwarded to:

Faculty of Mathematics and Natural Sciences, University of Oslo, Attn.: Senior Executive Officer Gro Corell, P.O.Box 1032, Blindern, NO-0315 OSLO before the closing date.

Application papers will not be returned.

The position is at the Institute of Theoretical Astrophysics, under the Faculty of Mathematics and Natural Sciences, University of Oslo.

The faculty of the Institute of Theoretical Astrophysics presently consists of 13 associate and full professors, of these 10 are permanent professors/associate professors and 3 are adjunct professors shared with other institutions. The Institute employs about 10 postdoctoral research fellows. The research activity of the Institute of Theoretical Astrophysics is concentrated around Solar physics, Cosmology, and Celestial mechanics. Solar physics and cosmology have been designated as the Institute's main priority areas, and the solar physics group has been appointed as one of the Faculty of Mathematics and Natural Sciences' Top Research Programmes while the cosmology group has been appointed as one of the Faculty's Strategic Research Initiatives.

Observational material is collected from space-borne and ground-based observatories. Parallel with and in interaction with the observational activity, there is a strong activity in theoretical astrophysics. The Institute is actively engaged in a large number of international collaborative programs. It is heavily engaged in organizational collaborations through the Norwegian membership in ESA, Norwegian participation in the Nordic Optical Telescope (NOT) and the institute's participation in the Swedish 1m Solar Telescope on La Palma and the QUIET (Q/U Imaging Experiment) groundbased CMB polarization experiment in Chile. Space projects with major participation from the Institute include the Solar and Heliospheric Observatory (SOHO) and Hinode within solar physics and Planck within cosmology. In theoretical astrophysics the Institute has built up strong groups within numerical modelling and within the use of modern computational statistics methods in data analysis.

The experimental and theoretical activities at the Institute are supported by a modern computer infrastructure, including excellent access to supercomputing resources.

The teaching at the institute is given as courses and as supervision within the framework given by the degrees bachelor, master and Ph.D. Presently the Institute has about 16 master students and 12 Ph.D. students.

The advertised position has priority to solar physics, but excellent candidates from other fields of astronomy and astrophysics are also invited to apply. The solar physics group of the Institute of Theoretical Astrophysics was recently appointed by the Faculty of Mathematics and Natural Sciences as one of the Faculty's Top Research Programmes. The solar physics group presently consists of six permanent faculty, six post docs and five Ph.D. students, and it has a very lively and productive environment. The group participates heavily in the SOHO (Co-I on the CDS and Sumer instruments) and Hinode (Co-I on the EIS instrument) space borne solar observatories, and hosts the Hinode data centre in Europe. A strong participation in the future Solar Orbiter mission is planned. Guaranteed access to 40 observing days per year at the Swedish 1m Solar Telescope is utilized vigorously. The group has contributed to the development of new methods for analysing time series of data from solar telescopes. A very strong activity has been built up within numerical modelling and simulation of astrophysical plasmas and radiation fields, with main application to heating of the solar chromosphere and corona. This effort is closely linked to the observational activities and knits together numerical radiation transfer and (Magneto) Hydrodynamics. The solar physics group has access to excellent facilities for large scale computations, both in-house and nationally. The group has external funding through a number of grants from the European Union and the Research Council of Norway. The group also has an activity within space- and plasma physics, with applications to the solar wind and to interaction between shocked plasmas and solid structures

The Institute wishes to strengthen the activity in solar physics by opening a new permanent position on the associate professor level with priority to this field, observational, theoretical or both. In the evaluation of applicants to this position, emphasis will be given to whether the applicants can increase the scientific return within solar physics. Special weight will be given on expected future potential and on how the applicants will interact with the already ongoing research activities.

The person employed must be able to teach at all levels within the study program and must be able to supervise master- and Ph.D. students within her/his specialty. The teaching languages of the University of Oslo are Norwegian (Danish and Swedish counts as Norwegian) and English. The person employed must be willing to perform administrative duties in accordance with rules and regulations by the Institute and the Faculty of Mathematics and Natural Sciences.

In accordance with current regulations, main emphasis will be given to the supplied scientific work in the evaluation of applicants. Research leadership and participation in research projects will also be considered, provided sufficient documentation is given. In the ranking of the qualified applicants, weight will be given to documented scientific outreach, pedagogical qualifications, other scientific qualifications and other activities. Furthermore, weight will be given to personal qualities (leadership, ability to create a positive environment etc) and expected future potential. The minimum formal requirements include a Ph.D. in astrophysics or a related field.

As a general rule an interview and a trial lecture will be used in the appointment process. References will also be contacted.

The University of Oslo wants to have more women in permanent academic posts. Women are therefore encouraged to apply. The University of Oslo wants more people with an immigrant background in permanent academic posts. Such persons are encouraged to apply.

Applicants must submit 4 (paper) copies of not more than 10 publications which they wish the committee to assess, and mention the academic/professional works or parts of works that he or she wishes to have ascribed particular weight when the assessment is being conducted.

Please refer to “Rules for Appointments to Professorships and Associate professorships”, <http://www.uio.no/admhb/reglhb/personal/tilsettingvitenskapelig/rulesappointprofessor.xml> and “Rules for the assessment and weighting of pedagogical competence for appointments to permanent academic posts which include teaching duties”: <http://www.uio.no/admhb/reglhb/personal/tilsettingvitenskapelig/rulesassessmentweight.xml>.

MELDING TIL OPA:

KUNNGJØRINGEN ER SENDT FAGFORENINGENE. DATO:

KUNNGJØRINGEN SKAL LYES UT (KRYSS AV):

KUN INTERNT (PÅ UIOS HJEMMESIDER)

INTERNT, NORSK LYSNINGSBLAD OG AETAT

INTERNT, DAGSPRESSEN, NORSK LYSNINGSBLAD OG AETAT

ANNET TIDSSKRIFT (SPESIFISER):

FAKTURA BELASTES:

MERKNAD TIL OPA:

MELDING TIL BYRÅET:

**KRISTIN KJØLSTAD
ETTER FULLMAKT**