

Solar Physics in The Netherlands

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Solar physics is done in the Netherlands at Estec, Utrecht and Nieuwegein.

At the *Sterrekundig Instituut Utrecht*, solar physics is done by:

- Rob Rutten (staff member, spectral line formation and chromospheric dynamics) with Nick Hoekzema (graduate student) and another graduate student (vacancy);
- Rob Hammerschlag (staff member, open tower telescope — now called the Dutch Open Telescope) with coworkers Felix Bettonvil and Andrej Makarovič;
- Max Kuperus (full professor), Jan Kuijpers (professor) and Bert van den Oord (postdoc), who concentrate on stellar and accretion-disk activity put have partial interests in solar plasmaphysics;
- Tony Hearn (full professor) who currently computes coronal holes with graduate student Kostas Tziotziou;
- Kees Zwaan (emeritus professor), who remains active in the field, amongst other things as PhD supervisor to Ken Tapping (Canada) and Sara Martin (USA).

Karel Schrijver will leave Utrecht at the end of 1994 to take up a position at Lockheed, while Louis Strous moves to NSO/Sacramento Peak on a NJIT postdoc after defending his thesis in December 1994.

The OTT has been renamed DOT (*Dutch Open Telescope*) for being the first Dutch telescope on La Palma. It is nearly complete at last. Negotiations between the IAC and the Dutch astronomy foundation NFRA are also nearly complete; the IAC has obtained most of the required building permits. The intention is to move the telescope as soon as possible to a site between the Swedish Solar Vacuum Telescope and the Carlsberg Transit Circle. The Swedish colleagues have kindly offered use of their building for the telescope control. Funding is secure for the installation and initial tests of the telescope until mid 1996. Additional funds are now being sought to equip the DOT with a two-channel imaging system using speckle restoration techniques, with the goal to use photospheric and chromospheric (Ca II K) high-resolution image sequences in tandem with SOHO MDI and SUMER observations.

At the *Utrecht Space Research Institute*, which is a non-University institute funded by the Dutch science foundation NWO), Peter Hoyng (staff member, dynamo theory, asteroseismology), Rolf Mewe (X-ray spectrometry) and Jelle Kaastra (X-ray spectrometry) retain partial interests in solar physics.

At the Dutch *Institute for Plasmaphysics* at Nieuwegein (also funded by NWO) Hans Goedbloed (staff member, and also part-time professor at Utrecht University) with students emphasizes coronal plasmaphysics, heating and loop theory.

Finally, at ESTEC there is an international, very active but also very transient, Solar Physics group that is involved, among other projects, with SOHO and Ulysses. The members are:

- Martin Huber, head of the ESA Space Science Division, responsible for the UVCS spectral gratings on SOHO;
- Peter Wenzel, head of the Solar Physics Department, with an active interest in high-energy interplanetary particles;
- Bernard Foing, staff scientist, working on Solar and stellar spectroscopy, and presently on an eclipse expedition to Bolivia (Nov. '94) to test new SSD CCD's;
- June Wiik, research fellow, interested in spectroscopy and prominences, also involved in the eclipse expedition. She will leave ESTEC in '95;
- Thomas Neukirch, research fellow, works on numerical MHD of the corona and the magnetotail. He will leave in December '94 for St. Andrews;
- Thierry Toutain, research fellow, works on Helioseismology. He has accepted an CNRS position at Nice Observatory, and will start there October 1994;
- Thierry Appourchaux, staff member, works on the Luminosity Oscillations Imager of the VIRGO experiment on SOHO. Technical support is provided by Thierry Beaufort and Udo Telljohan, also ESA staff members;
- Brian Marsden and Trevor Sanderson, both ESA staff, work on the Ulysses project, and carry out research on high energy interplanetary particles;
- Vicente Domingo, SOHO Project Scientist and Co-I on VIRGO. He is interested in solar irradiance variations;
- Luis Sanchez, SOHO Science Data Coordinator, works on helioseismology;
- Bernard Fleck, SOHO Deputy Project Scientist, and works on chromospheric oscillations;
- Piet Martens, SOHO Science Operations Coordinator, has interest in coronal heating, flares, winds, and nonlinear processes.

Luis Sanchez and Piet Martens move to GSFC by the end of Oct. '94; Bernard Fleck and Vicente Domingo go to GSFC in the middle of 1995.