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# CASSIOPEIA

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No. 88 - Autumnal Equinox 1995

ISSN 0715-4747

Publications Mail Registration No: 0565318

<http://bear.ras.ucalgary.ca/CASCA/cass-index.html>



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## ADDRESS CHANGES

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 Do not forget to update your  
 own e-mail address



**ADASS-95**

22 - 25 October 1995, NOAO,  
Tucson, AZ  
[softconf@noao.edu](mailto:softconf@noao.edu) (Jeannette Barnes)  
<http://iraf.noao.edu/ADASS/adass.html>  
[ftp iraf.noao.edu](ftp://iraf.noao.edu)  
cd iraf/conf/adass-95

**187th Meeting of the AAS**

14-18 January, 1996  
San Antonio, TX  
[swri:hunter](mailto:swri:hunter) (Hunter Waite)

**High Sensitivity Radio Astronomy**

22 - 26 January 1996, University of  
Manchester  
[hsra@jb.man.ac.uk](mailto:hsra@jb.man.ac.uk) (Janet Easton)

**CASCA 1996 - New Windows on the Universe**

1 - 4 June 1996, Queen's University,  
Kingston, Ont.  
[Hanes@bill.phy.queensu.ca](mailto:Hanes@bill.phy.queensu.ca)  
(David Hanes)

**188th Meeting of AAS**

9 - 13 June 1996, Madison, WI  
[bles@sal.wisc.edu](mailto:bles@sal.wisc.edu)  
(Bob Bless)

\*\*\*\*\*☼☼☼☼☼☼☼☼\*\*\*\*\*

*Seen in the Popular Press*  
*or*  
*Alternative Abstracts*

Astronomers have discovered a giant cloud of alcohol around the newly formed star G34.3 in the constellation Aquila. A team from the Universities of Kent and Manchester made the discovery and estimate the cloud to contain the equivalent of over 400 trillion pints of beer. Unfortunately for tippling *trekkies* the cloud is more than 10,000 light years away.

*All About Beer Magazine, July 1995*

If anyone has material of this nature which they would like to submit for publication, please feel free to e-mail an ASCII file or even fax an article (provided it does not contain 45000 words or so) to the editor. See back page for addresses.



**Research Associateship - National Research Council Canada  
Human Resources  
Montreal Road  
Ottawa, Ontario  
K1A 0R6**

The Herzberg Institute of Astrophysics of the National Research Council Canada will have an opening for a Research Associate (postdoctoral fellow) in optical astronomy at the Dominion Astrophysical Observatory in Victoria, B.C. after April 1996. The Appointee will be expected to undertake forefront, independent research programs in astronomy, and may compete for observing time on the Canada-France-Hawaii Telescope, the James Clerk Maxwell Telescope, or any other major international astronomy facility.

Applicants should have acquired a PhD within five years of taking up the Associateship or expect to obtain the degree before that time. The Associateship is open to nationals of all countries, although among applicants of equal merit, preference will be given to Canadians. The awarding of an Associateship does not in itself entitle the holder to enter Canada as a permanent resident.

The Research Associate will be offered an appointment to the staff of the National Research Council on a term basis with a salary and benefits currently available to members of the continuing staff having similar experience. The appointment will normally be for a two-year term, and may be considered for renewal, subject to the Associate's performance and to the requirements of the Herzberg Institute of Astrophysics. An allowance will be provided towards the cost of travel for the Research Associate, spouse and children.

Applications must be made on special forms which may be obtained from the above address. Applications and supporting documents must be sent to the Research Associates Office, in Ottawa, no later than November 30, 1995, and duplicates should be sent to Dr. J.E. Hesser, Dominion Astrophysical Observatory, 5071 W. Saanich Road, Victoria, B.C. V8X 4M6; preprints or reprints need be sent only to the latter. Information about D.A.O. may be obtained from <http://www.dao.nrc.ca> or the annual reports in BAAS.

NRC is an equal opportunity employer. We thank all those who apply and advise that only those selected for further consideration will be contacted.



**Bourse de membre associé en recherche - Conseil national de  
recherches Canada  
Ressources humaines  
Chemin de Montréal  
Ottawa, Ontario  
K1A 0R6**

L'Institut Herzberg d'astrophysique du Conseil national de recherches Canada offre une bourse de membre associé en recherche (boursier postdoctoral) en astronomie optique pour l'Observatoire fédéral d'astrophysique situé à Victoria (C.-B.), après avril 1996. Le candidat retenu en attendant pour entreprendre des programmes indépendants de recherche de pointe en astronomie, et pourra être en concurrence pour le temps d'observation sur le télescope Canada-France-Hawaï, le télescope James Clerk Maxwell, ou toute autre installation internationale importante d'astronomie.

Les candidats devront posséder un doctorat depuis peu (moins de cinq ans) ou l'obtenir avant leur éventuelle embauche à titre d'attaché de recherche. La bourse est offerte aux citoyens de tout pays, même si à mérite égal, la priorité sera donnée aux Canadiens. L'obtention de cette bourse ne confère pas automatiquement le droit d'entrer au Canada à titre de résident permanent.

Le membre associé en recherche sera affecté à l'équipe du Conseil national de recherches Canada sur une base temporaire, avec le salaire et les avantages sociaux offerts aux employés réguliers possédant une expérience similaire. Normalement, le poste sera pour une durée de deux ans, avec possibilité de renouvellement, selon l'évaluation des performances et les besoins de l'Institut Herzberg d'astrophysique. Une allocation de déplacement sera fournie au membre associé en recherche, à son conjoint et à ses enfants.

Un formulaire spécial de demande de candidature est disponible à l'adresse mentionnée ci-dessus. Tous les documents accompagnant le formulaire de demande devront être envoyés au Bureau des membres associés en recherche, à Ottawa, au plus tard le 30 novembre 1995, ainsi qu'un duplicata au Dr. J.E. Hesser, Observatoire fédéral d'astrophysique, 5071, chemin Saanich Ouest, Victoria (C.-B.) V8X 4M6. Des pré-tirages ou réimpressions ne devront être envoyés qu'à cette dernière adresse. Vous pouvez obtenir de l'information sur l'Observatoire fédéral d'astrophysique par Internet: <http://www.dao.nrc.ca> ou dans les rapports annuels contenus dans le bulletin de l'American Astronomical Society.

Le CNRC souscrit au principe de l'équité en matière d'emploi. Nous remercions d'avance toutes les personnes qui postuleront, mais nous ne communiquerons qu'avec celles qui seront retenues pour une entrevue.



## THE PLASKETT MEDAL / LA MEDAILLE PLASKETT

The Royal Astronomical Society of Canada and the Canadian Astronomical Society have established an award entitled The Plaskett Medal in recognition of the pivotal role played by John Stanley Plaskett in the establishment of astrophysical research in Canada. The award, consisting of a gold medal, is to be made annually to the Ph.D. graduate from a Canadian university who is judged to have submitted the most outstanding doctoral thesis in astronomy or astrophysics in the preceding two calendar years.

At most two candidates should be nominated by the head of his/her department from among the graduates of that university. The department head should submit four copies of a letter of recommendation, not more than three pages in length, and four copies of the nominee's thesis to the Awards Committee, prior to 15 January 1996, for consideration for the 1996 award. If the thesis does not clearly indicate how much of its content is the original work and ideas of the author, the department head should address this point in the letter. No other material should be submitted.

Note that the phrase "in the two preceding calendar years" in the eligibility rules makes it possible to re-nominate a candidate for whom an unsuccessful nomination was made in the preceding year. Because none of the documentation of previous nominations is retained for the use of the current selection committee, all re-nominations should be submitted with full documentation.

La Société Royale d'Astronomie du Canada et la Société Canadienne d'astronomie ont institué un prix, nommé la médaille Plaskett, en reconnaissance du rôle important qu'a joué John Stanley Plaskett dans l'implantation de la recherche en astrophysique au Canada. Le prix, qui consiste en une médaille d'or, est offert chaque année à un(e) diplômé(e) Ph.D. d'une université canadienne qui, d'après l'opinion du jury, a soumis la meilleure thèse de doctorat en astronomie ou en astrophysique durant les deux dernières années.

Au plus, deux candidat(e)s par département peuvent être proposé(e)s par le directeur du département. Le directeur doit transmettre quatre copies d'une lettre de recommandation, de trois pages au plus, et quatre copies de la thèse du (de la) candidat(e) choisi(e) au comité des prix et ce, avant le 15 janvier 1996 pour que le (ou la) candidat(e) soit considéré(e) pour le prix de 1996. Si la thèse n'indique pas clairement la contribution de l'auteur quant au travail et aux idées, le directeur doit adresser ce point dans sa lettre. On ne doit pas transmettre d'autre document.

S.V.P., veuillez noter que l'expression "les deux dernières années" spécifiée par les règlements d'éligibilité, permet de proposer pour une deuxième fois un(e) candidat(e) qui n'a pas été retenu(e) l'année précédente. Cependant il faut soumettre de nouveau les documents nécessaires à l'évaluation car les membres du jury changent d'une année à l'autre.

D. Routledge, Chairperson  
CASCA Awards Committee  
Electrical Engineering Department  
University of Alberta  
Edmonton, Alberta, T6G 2G7  
routle@ee.ualberta.ca



## DATABASE ON CASCA DEMOGRAPHICS

This summer, all members of CASCA who were accessible by e-mail were asked to provide some basic information on their educational history and present job status, as input to a more comprehensive survey of our community than has ever been attempted before. Members were asked to tell us when and where they entered graduate school, what year(s) they obtained their degrees (M.Sc. and/or Ph.D.), who their graduate supervisor was, where they went after graduation, and what their current employment is. All of this information was obtained purely on a volunteer basis, and is to be held strictly confidential. Ultimately, my hope (and that of the CASCA Board) is that this material will help us understand much better how our astronomy graduates are influencing our observatories, educational institutions, and society in general, as well as to help us make a better case for astronomy to our funding agencies in future.

The response to our request was very encouraging, and I am delighted to report that the information gathering stage of this

project is nearly complete. Somewhat to the surprise of everyone involved, we now find that the database has more than 700 entries in it! The information for some people is still missing, and many individuals appear twice or even three times (separately for M.Sc., Ph.D., and postdoctoral fellowship). Nevertheless, a huge number of people are represented, and we have a solid beginning on a very impressive survey.

A report to the Board of Directors will be given on the state of this project in December.

Let me express heartfelt thanks to all who responded so willingly. If you have NOT yet done so -- either for yourself or your (present and former) students, please do so; we would like to include you. Send it anytime to [harris@physics.mcmaster.ca](mailto:harris@physics.mcmaster.ca). Ideas for future extensions of this database to other types of information, or for other ways to trace connections of astronomy to society at large, are always welcome and will be discussed by the Board.

*William E. Harris  
President*

*[harris@physun.physics.mcmaster.ca](mailto:harris@physun.physics.mcmaster.ca)*

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## THE CASCA PROGRAM OF SMALL TRAVEL GRANTS FOR FSU ASTRONOMERS

In 1993, CASCA initiated a program of support for astronomy in the former Soviet Union through an appeal for donations (Cassiopeia, No. 80, 7, 1993) to a fund from which small travel grants to deserving young astronomers would be made. This program was made possible through an agreement with the Euro-Asian Astronomical Society, who established a committee to supervise the awarding of the grants in the former Soviet Union (Cassiopeia, No. 82, 5, 1994). By 1994, this program had become part of Cascatrust's charitable activities (Cassiopeia, No. 83, 10, 1994).

To date, in two fund-raising campaigns, CASCA members have donated \$2400 (US) to the program, and

already some twenty young astronomers have benefitted from it. The extraordinary success of the program prompted the CASCA membership present at the 1995 Annual Meeting in Penticton to vote overwhelmingly in favour of extending the program for one more year.

In the following, I will present a summary of the grants that have already been made, and a few more detailed reports submitted by individual recipients to Cascatrust, in order to demonstrate how effective this program has become in providing researchers with travel assistance. It is remarkable how much research travel can be done for so little money, and hence how important our contributions are.



## Round 1 Awards

In the first round of disbursement of CASCA funds (\$1325 US donated in 1993/94) in early 1995, the following travel was facilitated:

1) A grant of \$170 allowed Lydia Makarova, an astronomer from the Special Astrophysical Observatory, to visit Potsdam, Germany, to do photometry of M82 group galaxies.

2) A fourth-year student from the Sternberg Astronomical Institute, Yuri Kovalev, used \$200 to make several trips to the RATAN-600 radio telescope at the Special Astrophysical Observatory to make observations of a complete sample of extragalactic radio sources.

3) A \$200 grant enabled Lidia Chinarova, an astronomer from the Odessa Observatory, to travel to the Astronomical Institute of the Slovak Academy of Sciences in order to carry out numerical analysis of observational data using large computers which are lacking in Odessa.

4) Natalia Bondar, of the Crimean Astrophysical Observatory, used a grant of \$150 to travel to the Sternberg Astronomical Institute in order to study solar-like phenomena in UV Ceti stars.

5) An undergraduate student at the St. Petersburg Technical University - Ioffe Physical Technical Institute, Alexander Ivanchik, was able to visit the Special Astrophysical Observatory to study absorption lines in the spectra of QSO's with large red shift because of a grant of \$120.

6) A grant of \$200 allowed Michail Demidov of the Siberian Institute for Solar and Terrestrial Physics to visit the Crimean Astrophysical Observatory in order to make observations of the time variations of the solar magnetic field.

7) A \$100 grant facilitated a trip to the Institute of Space Research in Moscow by Bogdan Novosyadly of the Lvov State University Astronomical Observatory, for collaborative work on models of mixed hidden mass in the Universe.

8) Edik Djaniashvily of the Abastumani Astrophysical Observatory used a grant of \$200 to travel to the Sternberg Astronomical Institute for a program of analysis of broad-band photoelectric observations of eclipsing binary systems of the WR type.

## Round 2 Awards

A second round of disbursement this year, using \$920 of the \$1075 US contributed to Cascatrast in 1994/5, has been approved for the following recipients:

1) Vitaly Gutorov and Sergei Fomin, two students at the Sternberg Astronomical Institute have been granted \$120 for a series of visits to the Crimean Astrophysical Observatory to make Fabry-Perot observations of gaseous nebulae.

2) Victor Shcherbakov, a postgraduate student at the Crimean Astrophysical Observatory, has been awarded \$100 for two, two-week visits to the Space Research Institute in order to pursue new investigations of the eclipsing binary BM Ori.

3) Sergei Andreevski and Valeri Kovtyukh of the Astronomical Observatory of the Odessa State University have received a grant of \$150 to visit the Special Astrophysical Observatory and make new observations with the 6-m telescope.

4) An award of \$220 has been made to Tina Kakhniashvili of the Abastumani Astrophysical Observatory to facilitate a visit to the Space Research Institute for collaborative theoretical work on models of mixed hidden mass in the Universe.

5) Andrei Tatarnikov, of the Sternberg Astronomical Institute, has been granted \$60 to visit the Crimean Astrophysical Observatory to continue the program of photometric monitoring of variable stars of various types.

6) Sergei Udovichenko of the Odessa State University has received a grant of \$75 to assist with a visit to the Special Astrophysical Observatory in order to make a series of observations with the 6-m telescope.

7) Three people from the Astronomical Observatory of the Nikolaev Pedagogical Institute, Sergei Guzij, Aleksei Shliapnikov and Elena Panko, have been awarded \$180 to make a series of visits to the Crimean Astrophysical Observatory in order to carry out observations and complete their theses.

Recipients of CASCA Travel Grants are requested to provide Cascatrast with short accounts of their research travel that has been facilitated by a CASCA grant. Several of these (somewhat edited) are appended to this article, and I hope that they will illustrate how valuable a program this is. I urge every CASCA member to



contribute something, even if only a few dollars, to this year's fund. It would be gratifying indeed if we could bring our total contribution to this program close to our original goal of \$5000 Cdn or more. Clearly economic conditions in the former Soviet Union are improving, but the situation is still very precarious. Our contributions, although small compared with other efforts, are playing an important role in maintaining the vitality of our science in countries in considerable turmoil.

### Reports

Natalia Bondar (Crimean Astrophysical Observatory) writes:

*My work has been supported by a CASCA grant and this grant has been used for travel and my stay in Moscow at the Sternberg State Astronomical Institut (SAI), Department of Variable Stars, for a rather long time - about three months. I was in Moscow in April - May, 1995, and then I am going to continue my work in August - October. During this time, I will be collecting all the information about the common parameters and photometric data for red dwarfs in the list below, using the catalogues of the SAI; choosing standard fields and measuring comparison stars with an iris photometer; measuring the brightness of programme stars and checking stars on all photographic plates including them to detect any long-term variation in their mean light curves; and checking the measurements after preliminary calculations in order to repeat them if needed. In short, the grant supports my travel and stay at SAI for three months while studying the brightness behaviour of some active red dwarfs on a time scale of several tenths of years, using the plate collection of SAI. These investigations are needed to search for cyclical changes in the mean light connected with activity of red dwarfs. In April - May the measurements were started for stars marked by asterisks.*

List of programme stars:

*1E 0419.2+19, \*V808 Tau, \*V910 Ori, \*V1003 Ori, \*AA Cnc, EI Cnc, WX UMa, GI 699, V2354 Sgr, V1348 Aql, V1335 Aql, \*V1816 Cyg, FG Aqr.*

Lydia Makarova (Special Astrophysical Observatory, Russian Academy of Sciences) writes:

*A program on the distance estimation of nearby galaxies by stellar photometry of the brightest stars in the galaxies is in progress at the 6-m telescope of the Special Astrophysical Observatory, Russian Academy of Sciences. Taking part in this program, I have visited the Astrophysical Institute, Potsdam, Germany from 20 March, 1995, to 20 May, 1995, collaborating with Dr. P. Notni on this project. This travel was supported by a CASCA Small Travel Grant, covering my expenses in purchasing tickets.*

*The M 81 group of galaxies was the focus of our special attention. In fact, images of the outermost north-eastern part of the M 82 galaxy had been obtained at the 6-m telescope in Johnson V and Cousins I filters, resolving this galaxy into single stars. The reduction of these images was carried out at the Astrophysical Institute, Potsdam, using the MIDAS reduction system. Stellar photometry in our frames was made using the background-interpolating photometry procedure, which is the private software of P. Notni. To cope also with the cases of close double or multiple objects, we used the DAOPHOT II package of P. Stetson. The DAOPHOT program was severely limited by the very irregular background in our field, so, we used the DAOPHOT reduction results only for the estimation of photometric accuracy.*

*Most of the measured stars in our field are probably members of M 82 itself, with the luminosities between -8 and -6 mag.*

*Thus they are comparatively young stars with masses between 10 and 20 solar masses. We estimate their age to be about 10 million years.*

*We also have plans to investigate other M 81 group galaxies. The images of the galaxies have been obtained at the 6-m telescope as well as at the telescopes of our German colleagues in Spain.*

*The results of our investigation of M 82 are now in preparation for the press.*



Dr. Bogdan Novosyadlyj (senior research worker, Astronomical Observatoru of L'viv State University, Ukraine) writes:

*The goal of my travel, supported by a small CASCA travel grant, to the Astro-Space Center (Physical Institute of the Russian Academy of Science, Moscow) was to continue the international co-operation on the problem of the formation of the large scale structure of the Universe and determination of the initial power spectrum. We have calculated transfer functions for adiabatic scalar fluctuations in the flat Friedmann Universe dominated by cold and hot dark matter with different contents (hybrid models). We have normalized spectra of these models by COBE 10 degree dT/T and compared predictions of these models with observational data on cosmic background anisotropy at different angular scales, bulk motions, correlation functions of galaxies and rich clusters of galaxies and the redshift distribution of quasars. It has been shown that the most promising model (with 85% CDM and 15% HDM) does not explain the peculiar velocity of galaxies in the top-hat sphere with radius of 50-100 Mpc/h, as well as the cluster-cluster correlation function. Moreover, the existence of the large-scale structures such as the Great Attractor, Shapley Concentration, Great Void, Great Wall, etc. in the framework of this model is also improbable. The viability of hybrid models may be provided by the rejection of the hypothesis about the all scale invariance of the primordial (post-inflation) spectrum. A paper in collaboration with Dr. V.N. Lukash (ASC, Moscow) and Dr. T.A. Kachniashvili (Georgia) is in process.*

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Alexander Ivanchik (St. Petersburg Technical University and Ioffe Physical Technical Institute) writes:

*My CASCA small travel grant was used for a trip to the 6-m Telescope of the Special Astrophysical Observatory to conduct observations. These were part of the program "Spectroscopy of Quasars and Cosmology" with Prof. D.A. Varshalovich as principal investigator.*

*The observations of quasar spectra at high redshifts were made by myself and V.E. Panchuk, using the 6-m Telescope of the Special*

*Astrophysical Observatory, Russia. High-resolution spectra (FWHM of about 0.3-0.4 Å, and S/N ratio of about 7 - 15) were obtained for the quasars HS 1946+76, S5 0014+81, and S4 0636+64. Data reduction was carried out with the software program "DECH" for the processing of CCD-images of echelle spectra (G.A. Galazutdinov). Our main goal in studying the absorption spectra of quasars was to determine the parameters of the heavy element absorption systems in order to estimate possible time variation of the fine-structure constant ( $\alpha = e^2 / hc$ ) over cosmological time scales (about  $10^{10}$  yr).*

*As a result of the data reduction, four absorption systems of Si IV were reliably identified. One of the four systems consists of three components. In our final analysis we have obtained six of the strongest individual estimates of  $(\Delta\alpha) / \alpha$ . Six other doublets of Si IV have been analysed earlier by P. Petitjean, M. Rauch and R.F. Carswell (ESO preprint, 1994, No. 994) with about the same precision in  $(\Delta\alpha) / \alpha$ . As a result of the next series of observations we expect to obtain the strongest limitation on the possible time variation of  $\alpha$  for the epoch  $2 < z < 4$ . Such a limitation will enable us to select amongst theoretical models which predict differing variability of the fine-structure constant.*

*I am extremely thankful to CASCA and EAAS for the travel grant.*

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Dr. Tina Kahnashvili (Abastumani Astrophysical Observatory) writes:

*During my visit to the Astro-Space Center (Russian Academy of Sciences, Moscow), supported by a CASCA travel grant, I have investigated some problems of large-scale structure formation in hybrid dark matter models of the Universe (in collaboration with Prof. V. Lukash).*

*In particular, we are interested in the primordial spectrum of perturbations in hybrid DMM. In the framework of the linear theory of perturbations, we have derived the system of equations describing the gravitational instability in a multi-component Universe (taking into account the role of massless collisionless particles). We assumed that the dark matter in the Universe is represented by cold particles (like axions) and hot particles (like*



massive neutrinos), and we assumed that the total energy density is equal to the critical density. In our approximation the role of baryons is neglected. Our description has the following free parameters:

1. The number of kinds of massless weakly interacting particles, which is connected with their total energy at the relativistic stage in comparison with the photon energy density.
2. The fraction of hot particles in the total energy density today.
3. The ratio of energy density of hot particles at the relativistic stage to the total energy of the relativistic component.

The derived system of equations is integro-

differential and its solution requires numerical simulation.

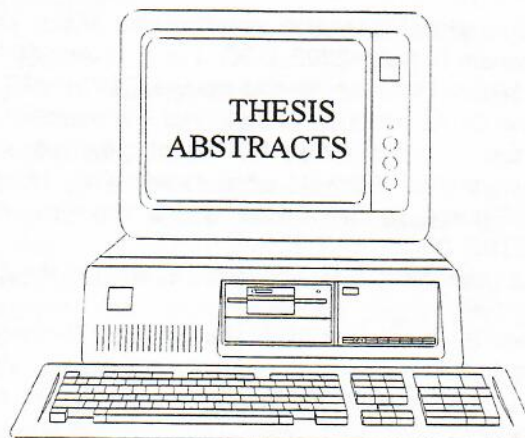
The aim of our work is to derive the transfer function (we assume that the post-inflationary spectrum is the standard spectrum of Harrison-Zeldovich). This function would give us the capability to describe completely the pregalactic perturbation spectrum in a multi-component Universe.

During my visit we have obtained the numerical solutions and we have derived the transfer function for various values of the parameters. We have also normalized the derived spectra, using COBE, by the mass r.m.s. perturbation at  $8/h$  Mpc.

We plan in future to continue the investigation of the perturbation spectra in the hybrid DMM in a Universe with non-zero cosmological constant.

Lloyd Higgs  
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Please send copies of Thesis Abstracts via email, or snailmail, to the editor:  
[jpenfold@mtroyal.ab.ca](mailto:jpenfold@mtroyal.ab.ca)



## CANADIAN ASTRONOMY PUBLICATIONS

June 21 to September 15, 1995

If you have a preprint or other Canadian publication, we would like to include it in this list. Please send a copy (or a photocopy of the title page) to:

Canadian Astronomy Publications List  
Astronomy Library  
University of Toronto  
Room 1306  
60 St. George Street  
Toronto, Ontario  
M5S 1A7

### A. PREPRINTS OF RESEARCH PAPERS

The following is a list of preprints written by Canadian astronomers and received at the Astronomy library within the dates given above. The preprints are arranged in alphabetical order according to the surname of the first listed author. Originating institution and date of receipt at the library are given.

- Allen, E.J., Bastien, P. *On coagulation and the stellar mass spectrum*. Obs. Mont Megantic 12-Jul-1995
- Barth, C., Coziol, R., Demers, S. *Imaging of MBG starbursts I. Morphological analysis*.  
Obs. Mont Megantic 7-Jul-1995
- Bechtold, J., Yee, H.K.C. *High spatial resolution spectroscopy of the Ly alpha absorption towards the gravitational lens system B 1422+2309*. DDO/U of T 11-Aug-1995
- Carlberg, R., et al *Galaxy cluster virial masses and omega*. DDO/U of T 7-Sep-1995
- Chaboyer, B., Kim, Y.-C. *The OPAL equation of state and low metallicity isochrones*. CITA 4-Jul-1995
- Chayer, P., et al *Improved calculations of the equilibrium abundances of heavy elements supported by radiative levitation in the atmospheres of hot DA white dwarfs*. Obs. Mont Megantic 7-Jul-1995
- Clement, C.M., Bezaire, J., Giguere, D. *The masses and luminosities of RR Lyrae variables in Oosterhoff type II clusters: I. NGC 2298*. DDO/U of T 22-Aug-1995
- Clement, C.M., Dickens, R.J., Bingham, E.A. *The variable stars in the globular cluster NGC 6362*.  
DDO/U of T 22-Aug-1995
- Coziol, R., Barth, C., Demers, S. *Imaging of MBG starbursts II. The nature of the sample*.  
Obs. Mont Megantic 7-Jul-1995
- Fernie, J.D., Khoshnevisan, M.H., Seager, S. *Secular changes in the classical cepheid Y Ophiuchi*.  
DDO/U of T 30-Aug-1995
- Fernie, J.D. *Classical cepheids and galactic structure*. DDO/U of T 30-Aug-1995
- Fernie, J.D. *The properties and photometric behavior of HD 52961*. DDO/U of T 30-Aug-1995
- Fernie, J.D., Seager, S. *V441 Herculis (89 Her) and V814 Herculis (HD 161796) in 1993 and 1994*.  
DDO/U of T 30-Aug-1995
- Fernie, J.D. *The period-gravity relation for radially pulsating variable stars*. DDO/U of T 30-Aug-1995
- Fiege, J.D., Henriksen, R.N. *A global model of protostellar bipolar outflow I*. Queen's 14-Aug-1995
- Fiege, J.D., Henriksen, R.N. *A global model of protostellar bipolar outflow II*. Queen's 14-Aug-1995



- Golla, G., Allen, M.L., Kronberg, P.P. *The starburst nuclear region in M82 compared at several wavelengths.* DDO/U of T 11-Sep-1995
- Hickson, P., Bhatia, R., Iovino, A. *No relativistic aberration of liquid mirrors.* UBC 27-Jul-1995
- Hill, G.M., Blake, C.C. *Is HR 1094 an Ap star?* Obs. Mont Megantic 12-Jul-1995
- Irwin, M., Tremaine, S., Zytlow, A.N. *A search for slow-moving objects and the luminosity function of the Kuiper belt.* CITA 14-Jul-1995
- Irwin, M.J., Demers, S., Kunkel, W.E. *The PYXIS cluster: a newly identified galactic globular cluster.* Obs. Mont Megantic 12-Jul-1995
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