

International Workshop on Gravitation and Astrophysics

TOKYO, JAPAN

17-19 November, 1997

We would like to announce that the International Workshop on Gravitation and Astrophysics is going to be held in Tokyo on 17-19 November, 1997, supported by the Institute for Cosmic Ray Research, the University of Tokyo.

OBJECTIVES

This workshop is the third in a series of workshops held in Asia (Seoul 1993, Hsinchu 1995). It is already the tradition of this series that theorists and experimentalists sharing common interests discuss a variety of issues relevant to promoting the quest to unify microscopic physics and gravitation. The Workshop will focus on tests of the equivalence principle, precision measurements of G , probing possible time variation of coupling constants, and related topics. Together these form a highly active area of experimental gravitation in parallel with the efforts toward gravity wave detection. A second major focus will be cosmology, with particular emphasis this time on the dark matter problem.

CONFERENCE SITE

The workshop will be held at the Tanashi Campus of the University of Tokyo (housing the Institute for Cosmic Ray Research and the former Institute for Nuclear Study), which lies 20 km west from the center of Tokyo. It takes 90 minutes by public transportation from the center of Tokyo.

PROGRAM

We are going to invite several speakers, partly evenly from theory and experiment, whose talks are arranged in every morning session. The afternoon sessions will be allocated for contributed talks and discussions. Currently, E. Fischbach (Purdue University), H. J. Paik (Maryland University), J. E. Kim (Seoul University), V. N. Melnikov (Center for Gravitation and Fundamental Metrology), F. J. Raab (Caltech), W.-T. Ni (National Tsing Hua University) accepted our request to attend the Workshop as invited speakers. Here is the tentative outline of the program:

Morning of Monday (17-Nov) Registration, Invited talks	Afternoon of Monday (17-Nov) Contributed talks, Discussions
Morning of Tuesday (18-Nov) Invited talks	Afternoon of Tuesday (18-Nov) Contributed talks, Discussions
Morning of Wednesday (19-Nov) Invited talks	Afternoon of Wednesday (19-Nov) Contributed talks, Discussions Banquet

HOTELS AND ACCOMMODATION

The accommodation in the campus consists of nine twin rooms with a common bath. Booking more than two months earlier is requested. The nominal cost is 1080 yen* per night per person. Since the facility is rather old, mainly for visiting experimenters, you might prefer a business hotel nearby which costs you 6500 yen*. There is a Japanese style hotel costing 5000 yen* per night (for more information, contact KAWASAKI Junko, junko@icrr.u-tokyo.ac.jp). * You have to add 5% consumer tax.

ATTENDANCE AND REGISTRATION

Registration fee is free. Banquet charge is collected separately at the registration desk. If you want to contribute a paper, you are requested to return the registration form not later than the end of this September (but if you want to use the on-campus accommodation, it would be better to do so as early as possible).

ABSTRACT AND PROCEEDINGS

No abstract is prepared, but proceedings will be made available in the form of CD-ROM. All contributors are asked to submit the Tex style manuscript after the Workshop. The format is announced at the workshop.

INTERNATIONAL ADVISORY COMMITTEE and LOCAL ORGANIZING COMMITTEE

The International Advisory Committee consists of Y. M. Cho (Seoul National University), S.-W. Kim (Ewha University), Y. Kozai (National Astronomical Observatory), L. Liu (Beijing Normal University), V. N. Melnikov (Center for Gravitation and Fundamental Metrology), W.-T. Ni (National Tsing Hua University), J. M. Nester (National Central University), K. Sato (University of Tokyo), H. Sato (Kyoto University), J. Arafune (University of Tokyo, ICRR), Y. Totsuka (University of Tokyo, ICRR). The Local Organizing Committee consists of Y. Fujii (Nihon-Fukushi University), N. Kanda (University of Tokyo, ICRR), M. Kawasaki (University of Tokyo, ICRR), K. Tsubono (University of Tokyo), M.-K. Fujimoto (National Astronomical Observatory), A. Onae (National Research Laboratory for Metrology), N. Mio (University of Tokyo), H. Hanada (National Astronomical Observatory). The Secretary is K. Kuroda (University of Tokyo, ICRR). **not confirmed

Further Information

The second circular will be distributed around this October with a detailed program. For the scientific program contact one of KURODA Kazuaki (kuroda@icrr.u-tokyo.ac.jp), KAWASAKI Masahiro (kawasaki@icrr.u-tokyo.ac.jp), and FUJII Yasunori (fujii@handy.n-fukushi.ac.jp). As for the accommodation, send e-mail to KAWASAKI Junko (junko@icrr.u-tokyo.ac.jp).

The mail address is
ICRR, University of Tokyo, 3-2-1 Tanashi, Tokyo 188, Japan.
Tel: +81-424-69-2278, Fax: +81-424-68-1438

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- M-1 Eleven Years of the Fifth Force
Ephraim Fischbach (Purdue University)
- M-2 Search for New Forces using Superconducting Accelerometers
Ho J. Paik (Maryland University)
- M-3 Axion and Cosmology
J. E. Kim (Soul National University)
- M-4 Axion in the Inflationary Universe
Masahiro Kawasaki (ICRR, University of Tokyo)
- M-5 Search for Dark Matter Axions with Rydberg-Atom Cavity Detector
Seishi Matsuki (Institute for Chemical Research, Kyoto University)
- M-6 Global String Evolution and Relic Axion Density
Michiyasu Nagasawa (YITP, Kyoto University)
- M-7 Search for New Forces using SQUID's with Paramagnetic Salts
Wei-Tou Ni (National Tsing Hua University)
- M-8 A measurement of the frequency dependence of spring constant
Sumihiro Matsumura (ICRR, University of Tokyo)
- T-1 The Implication of Ultra-high Precision Tests of Relativistic Gravity
and their Astronomical Realizations Using Optical Methods
Wei-Tou Ni (National Tsing Hua University)
- T-2 Systematic Error of Measurement of G Arising from the Anelasticity
Kazuaki Kuroda (ICRR, University of Tokyo)
- T-3 Oklo Phenomenon Revisited – Time-Dependence of the Strong Coupling
Constant?
Yasunori Fujii (Nihon Fukushi University)
- T-4 High Precision Spectroscopy of Antihydrogen
Toshimitsu Yamazaki (JSPS)
- T-5 Comment on the Gravitational Redshit Experiment on Antihydrogens
Yasunori Fujii (Nihon Fukushi University)
- T-6 Scalar-Tensor Theory of Gravity on $M_4 \times Z_2$ Geometry
Takesi Saito (Kwansei Gakuin University)
- T-7 Test of Spatial Anisotropy For Polarized Electrons Using A Rotatable
Torsion Balance
Li-Shing Hou (National Tsing Hua University)
- T-8 Development of Fibre Delay Lines for Fundamental Space Missions
and Application of Fibre Metrology to Ultra-Precision Fibre Sensors
Chin-Poh Pang (National Tsing Hua University)

- T-9 Graphs, General Invariants and Computer Technique
 Shoichi Ichinose (University of Shizuoka)
- W-1 The Foam-Like Structure of Space-Time and the Cancellation of
 Divergence on QED
 Liao Liu (Beijing Normal University)
- W-2 Multi dimensional Gravitational Models and Stability of G
 Vitaly Melnikov (Center for Gravitation and Fundamental Metrology)
- W-3 Moving-In Time at the Laser Interferometer Gravitational-Wave
 Observatory (LIGO)
 Fred J. Raab (CALTECH)
- W-4 Cryogenic Resonant Antenna in UWA
 Michael Tobar (University of Western Australia, ICRR, University
 of Tokyo)
- W-5 Vibrational Attenuator in Low Frequency
 Daisuke Tatsumi (ICRR, University of Tokyo)
- W-6 Cryogenic Mirror for Laser Interferometer
 Takashi Uchiyama (ICRR, University of Tokyo)
- W-7 Development of power recycling on a 3-m Fabry-Perot-Michelson
 interferometer
 Masaki Ando (University of Tokyo)
- W-8 Measurement of absolute reflectance of high-quality mirror using Fabry-Perot
 Cavity
 Akitoshi Ueda (The University of Electro-Communications)
- W-9 Gravitational waves in Brans-Dicke theory
 Motoyuki Saijo (Waseda University)
- W-10 Formation and evolution of global string
 Masahide Yamaguchi (University of Tokyo)