

Preliminary Announcement

The Second TAMA Workshop
on
Interferometric Gravitational Wave Detectors

OBJECTIVES

The second TAMA workshop on the interferometric gravitational wave detectors will be held in autumn, 1999 at some place in Tokyo. The LIGO/VIRGO/GEO/TAMA detectors are under construction, and all of them will start the operation within several years. Some of them will be ready to operate by the time of the Workshop. At this stage, we have common technical problems to be solved in order to achieve the projective sensitivities. Also, we have to prepare for the initial operation of the detectors; it is necessary to establish the common data format, method of data analysis and so on. This three days workshop will be devoted to the discussion of these problems and exchange of the information about the future international collaboration. It is hoped that the Workshop will stimulate the society of gravitational wave detection through the better understandings on the present detectors and strategies for the future works in this field.

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LIGO-G980073-05-M

YKIS99

New Eyes in the 21st Century : BLACK HOLES AND GRAVITATIONAL WAVES

June 28 - July 1, 1999

at

Yukawa Institute for Theoretical Physics

Kyoto, Japan

TOPICS

1) Coalescing Binary Neutron Stars and Black Holes

- a) Numerical Relativity (Full Relativistic Approximation)
- b) Post-Newtonian Calculation
- c) Test Particle (Perturbation)

2) Detection of Gravitational waves

- a) LIGO/VIRGO/TAMA team report
- b) Various Sources of Gravitational Waves
- c) Equilibrium of rapidly rotating stars and their stability

3) Evidence for the existence of Black holes

- a) X-ray Binary
- b) AGN and QSO

4) Astrophysical Phenomena and Black Hole

- a) gamma ray bursts and Black holes
- b) MACHO and its candidates
- c) Primordial Black Hole

5) Fundamental Problems in General Relativity

- a) Singularity
- b) Critical Behaviour
- c) Black Hole/Neutron Stars in general scalar tensor theory

6) Black hole in Unified Theory and Thermodynamics

- a) Origin of Black Hole Entropy
- b) Exotic Black Hole and Thermodynamics

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Note 1, Linda Turner, 04/30/98 10:38:19 AM
LIGO-G980073-05-M