

**Attachment Number 4 to the
Memorandum of Understanding (LIGO-M970009-00-M)
between the
TAMA Project, Japan
and the
Laser Interferometer Gravitational Wave Observatory (LIGO) Project
May 1, 1999**

This Attachment to the Memorandum of Understanding LIGO-M970009-00-M describes a cooperative research effort between the TAMA Project, Japan and the Laser Interferometer Gravitational-Wave Observatory (LIGO) Laboratory to improve the interferometer simulator e2e. The period of performance for the activities in this Attachment is from May 1, 1999 to April 30, 2000. This period may be modified by agreement to a revision of this Attachment.

1. The goal of this work is to develop and utilize simulation softwares for TAMA and LIGO. This will be accomplished by exchanging simulation softwares developed by each group, and by reporting to each other the comparison of the measurements and the simulated results.
2. This task will be led by Masatake Ohashi for TAMA and Hiro Yamamoto for LIGO.
3. Technical, Schedule and Cost Reporting - The status of the work will be reviewed in a monthly teleconference involving all interested parties from TAMA and LIGO. The emphasis of these meetings will be on technical and schedule issues.
4. Cost - Each group will be responsible for the salaries and travel expenses of its staff participating in this effort. Reciprocal Exchange visits are also expected. The main work will take place at TAMA.

Approved:

Barry Barish

Barry Barish
LIGO Laboratory Director

Yoshihide Kozai

Yoshihide Kozai
TAMA Principal Investigator

April 22, 1999

Date

May 17, 1999

Date

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Barry Barish

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LIGO Laboratory Director

Yoshihide Kozai

Yoshihide Kozai
TAMA Principal Investigator

3/23/00
Date

4/4/00
Date