

Memorandum of Understanding
between the
Department of Physics and Astronomy(DPA) and the Center for Advanced
Microstructures and Devices(CAMD) of the Louisiana State University
and the
Laser Interferometer Gravitational Wave Observatory (LIGO) Project
October 1, 1995

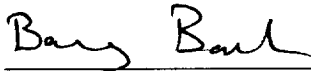
The purpose of this Memorandum of Understanding is to establish and define a collaborative relationship between the Department of Physics and the Center for Advanced Microstructures and Devices of the Louisiana State University and the Laser Interferometer Gravitational Wave Observatory (LIGO) Project. Both parties to this agreement share the goals of observing gravitational radiation and subsequently using gravitational radiation as an astrophysical probe. This agreement is intended to further these joint goals.

1. The Department of Physics and Astronomy(DPA) and the Center for Advanced Microstructures and Devices(CAMD) represent two premier basic research units on the campus of Louisiana State University(LSU). These units wish to promote basic scientific research activities throughout the southeastern region of the United States and, in particular, in the state of Louisiana. They view the establishment of a LIGO site in Livingston Parish as an opportunity to this end. To achieve these goals, both units offer assistance to the LIGO project in its day-to-day administrative and operational functions at the Livingston Parish site.
2. The Laser Interferometer Gravitational-Wave Observatory (LIGO) Project is aimed at opening the field of gravitational-wave astrophysics through the direct detection of gravitational waves. LIGO detectors will use laser interferometry to measure the distortions of the space between free masses induced by passing gravitational waves. The design, construction, and operation of LIGO is being carried out by scientists, engineers, and staff at the California Institute of Technology (Caltech) and the Massachusetts Institute of Technology (MIT). Caltech has prime responsibility for the project under the terms of a Cooperative Agreement¹ with the National Science Foundation (NSF). LIGO will become a national facility for gravitational-wave research, providing opportunities for the broader scientific community to participate in detector development, observations and data analysis. LIGO welcomes the participation of outside scientists at any of these levels. LIGO is being constructed in a phased approach beginning with one three-interferometer detector system and evolving to a nine-interferometer configuration to enable simultaneous use by several gravitational-wave observation systems.

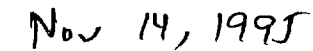
1. Cooperative Agreement No. PHY-9210038 between the National Science Foundation, Washington, D.C. 20550 and the California Institute of Technology, Pasadena, CA 91125, dated May 1992.

3. In entering into this Memorandum of Understanding, the LIGO Project will carry out its responsibilities following the requirements of the Cooperative Agreement¹.
4. The LIGO Project is responsible for obtaining NSF approval of all collaborative Memoranda of Understanding with international partners, or involving NSF costs exceeding \$100,000. All Memoranda of Understanding will be provided to NSF for their information.
5. Each party to this agreement continues to be responsible for all support of its staff including travel costs associated with the activities under this agreement. Exceptional support of travel by the other institution may be allowed for travel requested by that institution.
6. This Memorandum of Understanding will remain in force until the parties mutually agree to terminate it. An annual Attachment will define specific activities to be carried out during the following year.

Approved:



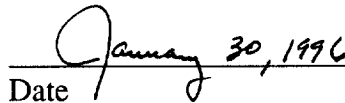
Barry Barish
LIGO Principal Investigator



Date



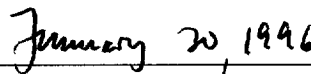
Joel E. Tohline
Chairman, Dept. of Physics and Astronomy



Date



Volker Saile
Director, J. Bennett Johnston, Sr.,
Center for Advanced Microstructures
and Devices(CAMD)



Date