

**Attachment Number 2 to the
Memorandum of Understanding (LIGO-M990001-00-M)
between the
University of Texas at Brownsville Relativity Group (UTBRG)
and the
Laser Interferometer Gravitational Wave Observatory (LIGO) Laboratory
August 15, 1999**

This Attachment to the Memorandum of Understanding LIGO-M990001-00-M covers research involving use of the Caltech 40-meter prototype interferometer November 1994 test data set and the data-analysis package GRASP. Documentation on both the data and the GRASP package will be made available. The period of performance for the activities in this Attachment is from August 15, 1999 to February 15, 2000. This period may be modified by agreement to a revision of this Attachment.

1. This document is an agreement between Joseph Romano and the LIGO Laboratory. The LIGO staff member Albert Lazzarini will serve as the internal LIGO collaborator and point of contact for the work described below.
2. J. Romano plans to contribute to the LIGO data analysis effort in the area of stochastic gravitational wave detection and associated data analysis algorithm development.
3. The results of J. Romano' work will be communicated to the LIGO Laboratory in a collegial and timely manner. J. Romano is also expected to relay any new knowledge gleaned from the data stream that might affect or influence the ongoing analysis of this data and understanding of the instrument, as well as any errors, bugs or problems with the GRASP package and suggested corrections or changes to it.
4. J. Romano agrees that the data and GRASP will not be used for any public purpose (talk, paper, preprint, etc.) without the express written consent of the LIGO Laboratory. This agreement is intended to a) ensure that those individuals who made significant contributions towards obtaining and analyzing this data receive proper credit, and b) that the LIGO Laboratory has the opportunity to review and vet any conclusions reached. J. Romano acknowledges that receipt of this software and data does not imply any future commitment on the part of LIGO to supply additional software or data.
5. J. Romano agrees to accept responsibility for controlling access to the November 1994 test data set, and to GRASP. Access will be restricted to Mario Diaz, who with J. Romano constitutes the UTBRG; other individuals or organizations not covered by this Agreement will not have access to these materials in any form. J. Romano may request that individuals be added

to (or removed from) this Attachment in the future.

6. It is expected that J. Romano and members of UTBRG will contribute to the GRASP package useful code derived from their work. This should be contributed with sufficient documentation and examples (in the appropriate format) to permit independent use by others; LIGO will take responsibility to maintain the overall GRASP package.
7. J. Romano will accept LIGO's eventual decisions regarding the distribution of and access to GRASP, and the materials that they contribute to it.

Approved:

Barry Barish
Barry Barish
LIGO Laboratory Director

Joseph V. Romano
Joseph Romano
UTBRG Principal Investigator

Sept 21, 1999
Date

12 October 1999
Date

Albert Lazzarini
Albert Lazzarini
LIGO Staff

15 September 1998
Date