

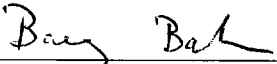
**Attachment Number 2 to the
Memorandum of Understanding (LIGO-M950073-00-M)
between the
Michigan Gravity Wave Group (MGWG) in the Department of Physics of the
University of Michigan
and the
Laser Interferometer Gravitational Wave Observatory (LIGO) Laboratory
February 15, 2000**

This Attachment to the Memorandum of Understanding LIGO-M950073-00-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 February 15, 2000 to February 15, 2001. This period may be modified by agreement to a revision of this Attachment.


1. This document is an agreement between Keith Riles 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. K. Riles plans to contribute to the LIGO data analysis effort including development of algorithms for detecting periodic low strength sources of gravitational radiation or developing alternative algorithms for detecting inspiral chirp events from binary systems. More general issues to be addressed include optimum program structure to use with parallel processing computers and the handling of the massive data expected from the full LIGO detector.
3. The results of K. Riles' work will be communicated to the LIGO Laboratory in a collegial and timely manner. K. Riles 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. K. Riles 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. K. Riles 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. K. Riles agrees to accept responsibility for controlling access to the November 1994 test data set, and to GRASP. Access will be restricted to those individuals listed below; other individuals or organizations not covered by this agreement will not have access to these materials in any form. K. Riles may request that individuals be added to (or removed from) this list in the future. Bob Ball, a U-M research scientist who works with K. Riles on non-LIGO projects and serves as local HP cluster manager, will be asked to install the official version of the GRASP package and any future releases. This will require his having access to the software and data.
6. It is expected that K. Riles and members of MGWG team 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. K. Riles 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
LIGO Laboratory Director



Ctirad Uher
Chair, Department of Physics

Feb 10, 2000
Date

2/15/00
Date



Albert Lazzarini
LIGO Staff

7 Feb 2000
Date