



**Attachment DAT to the
Memorandum of Understanding LIGO-M950059-00
between the Experimental Relativity Group of the Louisiana State
University (LSUERG)
and the
Laser Interferometer Gravitational Wave Observatory (LIGO)
For The Period
August 15, 2008 - August 14, 2009**

This Attachment DAT to the Memorandum of Understanding LIGO-M950059-00 defines the role of the Experimental Relativity Group of the Louisiana State University (LSUERG) as a Member of the LIGO Scientific Collaboration (LSC). In particular, it addresses data analysis activities in support of the initial LIGO interferometers. The period of performance for the activities in this Attachment is from August 15, 2008 - August 14, 2009.

1. Collaboration

Together, the LIGO Laboratory and the LIGO Scientific Collaboration (LSC) are responsible for implementing and exploiting the initial LIGO detector through its science data runs. The LSC has organized the data analysis effort into search groups which coordinate analysis, review, and publication on behalf of the collaboration. LSC groups are encouraged to participate in one or more of these groups.

MOU Attachment DAT defines the contributions of each participating group to the data analysis development groups.

2. Participation

During the period August 15, 2008 - August 14, 2009, the members of LSUERG will participate in the analysis of initial LIGO data in the following areas:

a. Binary Inspirals

LSC-LSU members active in the CBC group in July 08-July 09: Jacob Slutsky, Jeff Kissel, Sarah Caudill (graduate students) Romain Gouaty (postdoc, until September 19, 2008) Gabriela Gonzalez, Jorge Pullin (faculty), Lisa Giaime, Sam White, Josh Abadie (scientist/engineer).

- CBC Veto Investigations:
Jacob Slutsky and Gabriela Gonzalez will work on refining veto definitions for the S5 analysis using data quality flags defined by the Detector Characterization Group. They will work in collaboration with other members of the CBC

group on the use of data quality flags for S6, and on automating tools for evaluating their performance. Jacob Slutsky will continue leading the team creating vetoes for the groups searches.

- Follow up of CBC candidates:
Sarah Caudill, Romain Gouaty, and Gabriela Gonzalez will conclude the follow up of the S5 candidates resulting from the group searches. In collaboration with Cristina Torres and other members of the CBC group they will also work on the automation of the follow up tools and the interpretation of the results preparing for S6 weekly review of searches. Romain Gouaty and Sarah Caudill will co-lead the efforts for the follow up team.
- High Mass CBC searches:
Sarah Caudill and Romain Gouaty will collaborate with the rest of the CBC group in the search for high mass binary black hole systems; they each will be responsible for analyzing a month of S5 data. Romain and Sarah, in collaboration with Chad Hanna at CIT, and Jorge Pullin, Lisa Giaime, Josh Abadie and Sam White (from the LSU Center for Computation and Technology), will prototype implementation of high mass searches done over the grid, using data stored at CIT and computer clusters at LSU.
- Low mass CBC searches:
Romain Gouaty will analyze a month of LIGO-Virgo S5 joint run in the search for low mass systems.
- S6 online searches:
Jeff Kissel and Gabriela Gonzalez will work on the monitoring the output of the online analysis of S6 data, and specifically develop tools to monitor changes in the detector performance that are not flagged by automatic data quality monitors.
- Background estimates in CBC searches:
Sarah Caudill and Gabriela Gonzalez will work on ways to estimate the background of the CBC searches resulting for coincident candidates, starting from the background for the candidates for each detector. They will also study the effect of artifacts producing single detector loud triggers for a limited amount of a time on the estimate of the background produced using a finite number of time slides. If successful, this work may help to estimate the background at the high significance tail of the distribution, where good candidates are expected to appear, and where time slide estimates are weaker.

b. Bursts

- Scimon injection monitor:
Myungkee Sung, with help from Warren Johnson, will maintain the near real time burst injection monitor. This monitor produces web pages, with about 1/2-1 hour latency, that show the results of the optimal filter analysis of every burst injection. The new version will use on-line generated “h(t)” He will look for a partner at VIRGO to implement an equivalent system there.
- Real-time Optimal Filter diagnostic tool:
Myungkee Sung and Warren Johnson will port the Optimal Filter analysis engine to the Livingston GC system for commissioning and scimon diagnostics. A recently written data streaming tool should allow easy interfacing between the data and the program, so the main work should be a good graphical representation of the results. Our first efforts will be real-time strip-charts of the rate

and strength of burst-like events. The target latency, or delay, is 30 seconds, which we suspect is reasonable. We plan to use this tool ourselves as an alert for single-detector “noise storms” and then use the immediacy of that alert to narrow down the number of possible causes. If it proves useful, we will port it to Hanford and offer to port it to VIRGO.

Once this real-time system is proven, we will then propose extending it to perpetual operation, to contribute to the real-time alarm system and the data quality system.

- Optimal Filter Pipeline:

Myungkee Sung and Warren Johnson will continue development of the Optimal Filter Pipeline as a signal detection system, incorporating VIRGO data.

Myungkee Sung and Warren Johnson will continue to contribute to the followup investigations of burst detection candidates.

c. Stochastic

Not Applicable

d. Continuous

Not Applicable

e. Other Contributions

- Luis Lehner and Joel Tohline, in collaboration with Anderson, Hirschman, Neilsen (BYU) and Liebling (LIU) will continue their work towards understanding gravitational waves from (non-vacuum) compact binary systems. We will concentrate on estimating observable differences when varying possible equations of state together with the inclusion of magnetic fields. Our goal will be to understand the relevance of these effects and the possible detection of specific signatures associated with them. Additionally, we will examine the possibility of detecting electromagnetic signals associated with these systems to provide a better understanding of coincidences that might arise between burst or inspiral sources of gravitational waves and, for example, gamma-ray bursts (GRBs).

3. Resource Sharing

The LIGO Laboratory will contribute resources including allocation of appropriate scientific and engineering personnel, research facilities, and funding in support of the effort in Item No. 2, as indicated below.

- a. Research accommodations for LSUERG group members while on LIGO research assignment at any LIGO Laboratory site.

Not Applicable

- b. Access to LIGO data through established LSC channels in support of this work.

LSU personnel working on data analysis will continue to request grid certificates as needed.

Lisa Giaime, working on the OSG project, will continue requiring a grid-admin certificate.

4. Coordination and Reporting

LSUERG will perform research within the structures established by the LIGO Laboratory and the LSC where appropriate.

In particular, with reference to activities described above:

2a will be carried out within the LSC Inspiral Search Group.

2b will be carried out within the LSC Burst Search Group.

2c will be carried out within the LSC Stochastic Search Group.

2d will be carried out within the LSC Continuous Waves search Group.

This includes keeping the Group leaders informed of activities and plans, reporting to the group at meetings and telecons, and through technical documents submitted to the LIGO Document Control Center.

In addition, an annual report will be submitted with the update to this Attachment, giving a summary status on research by topic as indicated in Item No. 2, including progress against the milestones if any, significant accomplishments such as new insights/discoveries or publications, issues of concern if any, and an indication of invested time.

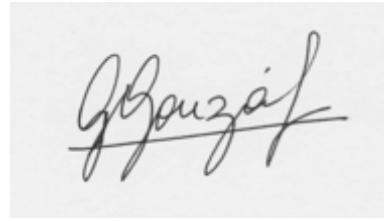
This Attachment will be updated at least annually with a plan of activities for the succeeding one-year period. These documents will be due one month before the close of the period of performance under this Attachment.

5. Computer Code

All computer code delivered to the LSC under this Attachment must be developed in consultation with the LSC Data Analysis Software Working Group (DASWG) and archived, documented and reviewed as determined by that group.



Jay Marx
LIGO Laboratory Director



Gabriela Gonzalez
Principal Investigator(s)
LSUERG



David Reitze
LSC Spokesperson



**Attachment OPS to the
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University (LSUERG)
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Laser Interferometer Gravitational Wave Observatory (LIGO)
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This Attachment OPS to the Memorandum of Understanding LIGO-M950059-00 defines the role of the Experimental Relativity Group of the Louisiana State University (LSUERG) as a Member of the LIGO Scientific Collaboration (LSC) in the areas of detector commissioning, detector characterization, and operations support in the initial LIGO interferometers. The period of performance for the activities in this Attachment is from August 15, 2008 - August 14, 2009.

1. Collaboration

Together, the LIGO Laboratory and the LIGO Scientific Collaboration (LSC) are responsible for implementing and exploiting the initial LIGO detector through its science data runs. LSC groups are encouraged to contribute to the commissioning, characterization, and operation of the LIGO detectors, as members of working groups established by the LIGO Laboratory and the LSC.

2. Participation

During the period August 15, 2008 - August 14, 2009, the members of LSUERG will participate in the initial LIGO detector research program in the following areas:

a. Detector Commissioning

Shyang Wen, Rupal Amin, Jeff Kissel, Jake Slutsky and Sarah Caudill (graduate students); Myungkee Sung, Romain Gouaty (postdocs); Joe Giaime, Warren Johnson and Gabriela Gonzalez (faculty) will continue to be involved in the commissioning, calibration and detector characterization activities. Cristina Torres (a CIT postdoc collaborating with the LSU group) will also work on detector characterization activities.

We expect two more graduate students to be involved in the 08-09 cycle: Tobin Fricke (an advanced graduate student transferring to LSU), and Ryan DeRosa (a new incoming graduate student). We hope to hire a new postdoc to be involved primarily with detector characterization activities.

- Shyang Wen will finish documenting the progress achieved by HEPI work, producing a technical paper and finishing his thesis.

- Jeff Kissel will document commissioning work done on active seismic isolation for HAM chambers, and help the remaining commissioning of HAM ISI.
- Rupal Amin will be involved in the modeling and commissioning of the Thermal Compensation System for the Enhanced LIGO detectors.
- Tobin Fricke will continue contributing to the commissioning of the Output Mode Cleaner and the DC readout for Enhanced LIGO.
- Jeff Kissel and Gabriela Gonzalez will be involved in the noise hunting, and specifically noise budgeting for the Enhanced LIGO detectors.
- Jeff Kissel will be involved with the ASC diagnosing and tuning of the Enhanced L1 detector.

b. Detector Characterization

- Gabriela Gonzalez will lead the LSC Detector Characterization working group.
- Gabriela Gonzalez will work with Keith Riles on incorporating S5 data quality flags in the database as they are defined; and she will insert S6 flags.
- Gabriela Gonzalez, Jeff Kissel, Jacob Slutsky, Sarah Caudill will work with the glitch group characterizing S5 and S6 transients, and identifying new data quality flags as needed.
- Gabriela Gonzalez, Jeff Kissel will develop tools to monitor large excursions from a stationarity background of the data for extended period of time ("glitchy segments").
- Jacob Slutsky, Jeff Kissel will monitor large triggers generated in the online inspiral search indicating instrument or environmental causes not identified by online flags.
- Romain Gouaty, Sarah Caudill, Gabriela Gonzalez will follow up candidates resulting from the S5 CBC searches and report on any instrumental or environmental causes that may have produced any false alarms and can be better vetoed in the future.
- Sarah Caudill, Cristina Torres (from CIT), Myungkee Sung, Warren Johnson and Gabriela Gonzalez will finish their commitment to searches for DQ flags suggested by entries in the S5 elog entries.
- Gabriela Gonzalez, Jeff Kissel, and Myungkee Sung will work on S5 and S6 detectors' calibration, including work on models, measurements done at LLO, generation of calibration coefficients, and production and review of time domain calibration.
- Gabriela Gonzalez and Cristina Torres (CIT) will use Cristina's tracksearch algorithms to monitor artifacts of relatively long duration (minutes) and narrow frequency bands.

c. Detector Operations

LSU group members will fill in science monitor shifts as needed.

d. Other Contributions

Not Applicable

3. Resource Sharing

The LIGO Laboratory will contribute resources including allocation of appropriate scientific and engineering personnel, research facilities, and funding in support of the effort in Item No. 2, as indicated below.

- a. Research accommodations for LSUERG group members while on LIGO research assignment at any LIGO Laboratory site.

LSU personnel working on commissioning will require desk space at the Livingston Observatory.

- b. Access to LIGO data through established LSC channels in support of this work.

Not Applicable

4. Coordination and Reporting

LSUERG will perform research within the structures established by the LIGO Laboratory and the LSC where appropriate.

In particular, with reference to activities described above:

2a will be carried out in coordination with the LIGO Laboratory Commissioning Leader.

2b will be carried out within the Detector Characterization Working Group of the LSC.

2c will be carried out in coordination with the LHO or LLO Site Head.

This includes keeping the Group leaders informed of activities and plans, reporting to the group at meetings and telecons, and through technical documents submitted to the LIGO Document Control Center.

In addition, an annual report will be submitted with the update to this Attachment, giving a summary status on research by topic as indicated in Item No. 2, including progress against the milestones if any, significant accomplishments such as new insights/discoveries or publications, issues of concern if any, and an indication of invested time.

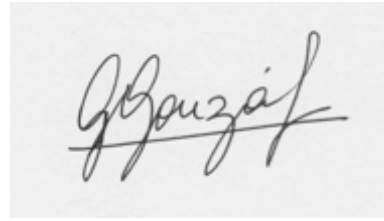
This Attachment will be updated at least annually with a plan of activities for the succeeding one-year period. These documents will be due one month before the close of the period of performance under this Attachment.

5. Computer Code

All computer code delivered to the LSC under this Attachment must be developed in consultation with the LSC Data Analysis Software Working Group (DASWG) and archived, documented and reviewed as determined by that group.



Jay Marx
LIGO Laboratory Director



Gabriela Gonzalez
Principal Investigator(s)
LSUERG



David Reitze
LSC Spokesperson



**Attachment SUS to the
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For The Period
August 15, 2008 - August 14, 2009**

This Attachment SUS to the Memorandum of Understanding LIGO-M950059-00 defines the role of the Experimental Relativity Group of the Louisiana State University (LSUERG) as a Member of the LIGO Scientific Collaboration (LSC), and a member of the Isolation/Suspension/Thermal Noise Development Group (ISTNDG). The period of performance for the activities in this Attachment is from August 15, 2008 - August 14, 2009.

1. Collaboration

The Isolation/Suspension/Thermal Noise Development Group (ISTNDG) is the scientific collaboration for defining and developing instruments in optics for use in advanced subsystems for the initial LIGO interferometers or in entirely new advanced interferometers. MOU Attachment SUS defines the roles and responsibilities of workgroups in this development group.

2. Participation

During the period August 15, 2008 - August 14, 2009, the members of LSUERG will participate in ISTNDG in the following areas:

a. Coating Losses

Not Applicable

b. Suspension Design for Advanced LIGO

Fabrice Matichard will support the development and testing of the Advanced LIGO seismic isolation system integrating the three stages of isolation: HEPI External Seismic Isolation Double stage Internal Seismic Isolation Quadruple Pendulum. This work will be done on the Advanced LIGO prototype in the lab at MIT, in close collaboration with members of that lab and others within the LIGO Scientific Collaboration (LSC).

This work will involve the controls commissioning of the sub-systems and the development of cross supervision warranting the safety of the Quadruple Pendulum Noise prototype made of fused silica wires.

Characterization and controls results may lead to possible rework of both the prototypes and their supporting instrumentation and control systems.

c. Other Contributions

Not Applicable

3. Resource Sharing

The LIGO Laboratory will contribute resources including allocation of appropriate scientific and engineering personnel, research facilities, and funding in support of the effort in Item No. 2, as indicated below.

- a. Research accommodations for LSUERG group members while on LIGO research assignment at any LIGO Laboratory site.

Fabrice Matichard is hosted by the MIT LIGO group.

- b. Access to LIGO data through established LSC channels in support of this work.

Not Applicable

4. Coordination and Reporting

LSUERG will perform research within the structures established by the LIGO Laboratory and the LSC where appropriate. In particular, activities described in Item 2 will be carried out within the Isolation/Suspension/Thermal Noise Development Group of the LSC.

This includes keeping the Group leaders informed of activities and plans, reporting to the group at meetings and telecons, and through technical documents submitted to the LIGO Document Control Center.

In addition, an annual report will be submitted with the update to this Attachment, giving a summary status on research by topic as indicated in Item No. 2, including progress against the milestones if any, significant accomplishments such as new insights/discoveries or publications, issues of concern if any, and an indication of invested time.

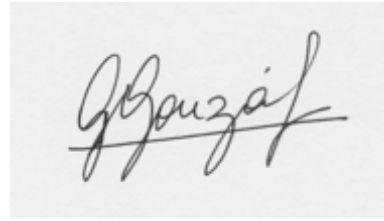
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5. Computer Code

All computer code delivered to the LSC under this Attachment must be developed in consultation with the LSC Data Analysis Software Working Group (DASWG) and archived, documented and reviewed as determined by that group.



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LIGO Laboratory Director



Gabriela Gonzalez
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David Reitze
LSC Spokesperson



**Attachment Z to the
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This Attachment Z to the Memorandum of Understanding LIGO-M950059-00 lists the members of Experimental Relativity Group of the Louisiana State University (LSUERG) participating in LIGO Scientific Collaboration (LSC) development group activities in support of the initial LIGO interferometers. The period of performance for these activities is from August 15, 2008 - August 14, 2009.

Faculty:

The Faculty category includes all "faculty rank" LSC members. This includes professorial appointments, research faculty appointments, teaching faculty appointments, lecturer and reader appointments, and similar appointments, and visiting appointments in all these categories.

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The Technical Staff category includes all non-PI LSC members with scientist, engineer, computer systems administrator or programmer, technician, and similar appointments, and visiting appoint-

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Undergraduate Students:

Administrative Staff:

The Administrative Staff category allows the listing of administrative aides and other staff members who perform essential support services in or for LSC member groups, but are not involved in the LIGO Scientific Collaborations engineering or scientific work. *Personnel who are involved in the LSC's scientific or engineering work, including computer system administration and programming, should be listed under other categories.* Personnel listed as Administrative Staff may be designated as a point of contact or proxy, but do not appear as authors on LSC publications, do not count toward a group's council delegate allocation, may not serve as council delegates, and do not increase a group's shift obligation.

FTE Commitment:

#	Name	Category	Member	Research	LIGO
1	Abadie, Joshua	technical	100%	30%	10%
2	Amin, Rupal	graduate	100%	100%	100%
3	Caudill, Sarah	graduate	100%	50%	100%
4	Giaime, Joe	faculty	5%	100%	100%
5	Giaime, Lisa	technical	100%	30%	10%
6	Gonzalez, Gabriela	faculty	100%	50%	100%
7	Gouaty, Romain	postdoc	100%	100%	100%
8	Hamilton, William	faculty	100%	10%	50%
9	Johnson, Warren	faculty	100%	50%	100%
10	Kissel, Jeffrey	graduate	100%	100%	100%
11	Lehner, Luis	faculty	100%	50%	10%
12	Matichard, Fabrice	postdoc	100%	100%	100%
13	Pullin, Jorge	faculty	100%	50%	10%
14	Slutsky, Jacob	graduate	100%	100%	100%
15	Sung, Myungkee	postdoc	100%	100%	100%
16	Tohline, Joel	faculty	100%	50%	10%
17	Wen, Shyang	graduate	100%	100%	100%
18	White, Sam	technical	100%	30%	10%
				Total FTE:	12.10

Roles:

Principal Investigators: Gonzalez, Gabriela

Membership Point-Of-Contact: Gonzalez, Gabriela

Group PIO/Press Coordinator: Gonzalez, Gabriela

Proxies:

Author Eligible

Giaime, Joe
Gonzalez, Gabriela
Hamilton, William
Johnson, Warren
Gouaty, Romain
Matichard, Fabrice
Sung, Myungkee
Amin, Rupal
Kissel, Jeffrey
Slutsky, Jacob
Wen, Shyang

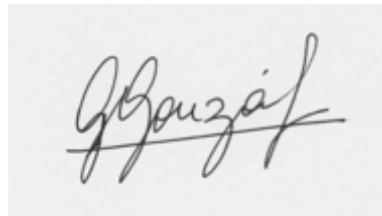
Council Delegates

Gonzalez, Gabriela
Johnson, Warren

Approvals:



Jay Marx
LIGO Laboratory Director



Gabriela Gonzalez
Principal Investigator(s)
LSUERG



David Reitze
LSC Spokesperson