

Mathematics & Statistics Program
Louisiana Tech University
P.O. Box 3189
Ruston, LA 71272

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Prof. Barry Barish
Director, LIGO Laboratory
California Institute of Technology
MS 18-34
Pasadena, CA 91125

This letter is a request for access to LIGO engineering data by myself and student assistants. This letter, which will be posted on the Web site of the LIGO Scientific Collaboration, is also meant to inform my LSC colleagues of the intended use of these data. I acknowledge that any publications arising from the data are subject to the LIGO/LSC Publications and Presentations Policy.

I wish to have access to data taken during the engineering run of April 3-4, 2000, with a single-arm 2-km interferometer at the LIGO Hanford Observatory. I intend to use this data to test, refine, and compare lossless data compression algorithms. Once an efficient algorithm is decided on, I plan to investigate the possibility of online lossless compression.

I understand that the data will be stored in the LIGO Data Archive at the Caltech Center for Advanced Computing Research (CACR) and request permission to transfer data from CACR to Louisiana Tech. Initially I will not need a large amount of data, but at a future date, I may wish to obtain a copy of the complete 24-hour data set. I would provide an AIT-2 tape, and request permission to ask the LIGO Lab personnel to assist in writing the tape for shipment to Louisiana Tech.

Best Regards,

Natalia Zotov
Associate Professor of Mathematics & Physics

Cc: Stan Whitcomb, LIGO Detector Group Leader
Albert Lazzarini, LDAS Group Leader
Rainer Weiss, LSC Spokesperson
Keith Riles, LSC Detector Characterization Group Chair