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Computational Frontiers in the Strong Gravity Regime

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k. Data Management Plan

The PI and her research team will adhere to NSF policies on the sharing, dissemination and preservation of research-related data. The data associated to the proposed research lies in two categories: software and publications. The implementation of the data plan for each of these two categories is discussed in turn below.

The software that will be developed during the proposed research will mostly include Wolfram Mathematica, MS Excel and Python files and source codes. Software licenses are available for free at USU for all the students at the 13 open access computer labs around campus and remotely through Citrix. This proposal will however employ other cloud (free web-based) platforms to access the necessary programs. For Excel Spreadsheets Google Drive will be employed, online free Wolfram Mathematica Programming Lab and Microsoft Azure for Python.

GNU General Public License will be used to release all the software, CAI products and toolkits derived from this grant proposal

We will preserve this software, both for later utilization in future research projects and to make it available to the research community upon request. Particularly relevant programs and routines will be regarded as open source and will be made available to the research community through a website created for that purpose. That website will be linked to the PI's own website and will be hosted at a relevant Utah State University server.

The findings of the proposed work will be published and disseminated according to standard practice in the Gravitational Physics community. Publications will be submitted to Cornell's arXiv (<https://arxiv.org>), a widely used open-source online pre-print repository, and subsequently to major peer-reviewed journals. All research published under this grant will include an acknowledgement to the NSF in the appropriate journal section. Dissemination of research will also include presentations at major workshops and conferences in the field, both national and international, and at seminars at research institutions.