Visualization software to produce 1-D, 2-D, and 3-D visualizations of numerical relativity simulations. These visualizations are used to help scientists understand and interpret the data from simulations. The projects focus on creating user-friendly interfaces that make it easy to explore and analyze the data.

THE SPIEGEL PROJECT

Spiegel is an efficient and easy-to-use way to connect together components of a visualization program. It is constructed out of small, simple components that communicate efficiently and effectively. The goal is to understand how to construct a dataflow that allows for the distribution of these components. A visualization framework can be seen as a solution to a specialized data flow problem.

Spiegel is the German word for mirror, which reflects and refracts light. In the context of visualization, Spiegel reflects and refracts the data to create meaningful representations. It is developed to be easy to use and flexible, allowing for the creation of powerful visualizations. The Spiegel visualization system is designed to be extensible and powerful, with the ability to connect and use a variety of components.

Visualization is the process of converting numbers into a form that is easier to comprehend. It is an important tool for scientists, as it allows them to convey complex data in a more accessible way. Visualization is particularly useful in fields such as astrophysics, where data can be vast and complex. Visualization can help scientists make sense of the data and identify patterns and trends.

Contact: Hans-Peter Bischof. Working in this area are several graduate and undergraduate students.

Projects and Collaborations:

- The Ligo Scientific Collaboration (LSC) is a well-organized collaboration of approximately 760 scientists worldwide who have joined together in the search for gravitational waves from the most violent events in the universe, such as the merger of black holes and neutron stars, the explosion of supernovae and the Big Bang.

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For more information, please visit the project's website or contact Hans-Peter Bischof.