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The Dendro-GR Platform for Numerical Relativity[1] DAVID NEILSEN, ERIC HIRSCHMANN, Brigham Young University, MILINDA FERNANDO, HARI SUNDAR, University of Utah — Dendro-GR is a new computational platform for challenging problems in numerical relativity. Dendro-GR uses conventional numerical methods for solving the Einstein equations and the relativistic fluid equations on a platform designed for massively parallel computing. Dendro-GR includes non-uniform grids, wavelet-based adaptive mesh refinement, and tools for symbolic code generation. This talk will review the features of Dendro-GR and its performance, as well as recent results with binary black hole mergers and perfect fluids.

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David Neilsen
Brigham Young University

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