## Numerical General Relativity and Asymmetric Bubble Collapse

Friday, 15 January 2016 09:00 (25 minutes)

I introduce GRChombo: a new numerical relativity code which incorporates full adaptive mesh refinement (AMR). The AMR capability permits the study of a range of new physics which has previously been computationally infeasible in a full 3+1 setting, including the study of critical phenomena in the collapse of scalar field bubbles in asymmetric configurations. I will present some preliminary results of such collapses, and suggest areas of interest for future study.

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