

## **Radiation boundary conditions for waves: the solved, the unsolved, and potential applications to numerical relativity**

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Accurate radiation boundary conditions are a necessary component of any software to solve time-domain wave equations on unbounded domains. We review the methods which provide a completely satisfactory solution for a large class of problems, including the scalar wave equation and Maxwell's equations, as well as ideas for their extension to more complicated systems and in particular to problems arising in numerical relativity.