

## Yin-Yang Dynamo Simulation with in-situ visualization Using ParaView/Catalyst

SUGA, Arata<sup>1\*</sup> ; KAGEYAMA, Akira<sup>1</sup>

<sup>1</sup>Graduate School of System Informatics, Kobe University

In accordance with the development of high performance computers, the data size of large scale simulations is exponentially growing. The post process visualization, which is currently the major approach to the data analysis in computer simulation research, might be in deadlock in the near future. The in-situ visualization method is attracting attention as a solution to this problem. We have recently realized an in-situ visualization of a magnetohydrodynamic (MHD) dynamo simulation using the Yin-Yang grid. We have used ParaView and Catalyst for visualization engine and its interface to the MHD simulation code for the in-situ visualization.

Keywords: Visualization, in-situ visualization, Yin-Yang grid

