VFIVE: A Scientific VR Visualization Tool for CAVEs

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Data visualization is the key process for the large scale three-dimensional computer simulations. The traditional two-dimensional data visualization via computer screens of PCs or graphics workstation is not powerful enough to analyze complicated three-dimensional structures hidden behind the large set of numerical data.

The virtual reality (VR) technology provides an ideal tool for such a complex three-dimensional data analysis. We have been developing an scientific data visualization software named VFIVE. VFIVE is designed for the interactive and fully three-dimensional data analysis of numerical simulation data. VFIVE is designed for the use an advanced VR system called CAVE.

In the talk, we will report the status of the VFIVE development, and its applications to solid Earth simulations.