

AstroTool: Rearchitecting VisIVO through HPC and Remote Visualization

Thursday 29 May 2025 10:15 (15 minutes)

AstroTool aims to evolve VisIVO into a next-generation client/server platform for the exploration and visualization of large FITS files from SKA and similar facilities. Building on the legacy of the ViaLactea Visual Analytics tool, AstroTool leverages modern High Performance Computing (HPC) infrastructures and a distributed, service-oriented cluster architecture to address the limitations of traditional desktop-based solutions by using a reengineered pipeline for the remote processing of massive FITS datasets.

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