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# Vialactea Visual Analytics Tool for Star Formation Studies of the Galactic Plane

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Vialactea Visual Analytics Tool, based on the VisIVO suite, is an innovative environment for the study of star-forming regions on our Galaxy . It allows an integrated analysis and exploitation of the combination of all new-generation surveys (from infrared to radio) of the Galactic Plane from space missions and ground-based facilities, using a novel data and science analysis paradigm based on 3D visual analytics and data mining frameworks.
The implementation philosophy behind the tool is to make transparent to the scientist the access to all information without requiring technical skills to access all the data stored the into the ViaLactea Knowledge Base (VLKB) that contains files in FITS format (from 2D images in the radio continuum to 3D FITS cubes containing radio velocity spectra at specific molecular lines and, also, a collection of 3D extinction maps) and a relational database that completes the VLKB resource content in terms of knowledge derived from the data and contains information related to 2D maps; filaments and bubbles; compact sources; and radio cubes.

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