

Euromlanet

JRA-4 : Transforming IDIS into a Planetary Virtual Observatory

Task “New databases”

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1) Laboratory spectroscopic databases for solids :

- Develop a generic database infrastructure for spectroscopic data of solids.
- Generate new databases covering :
 - UV-to-FIR transmission spectroscopy of ices and organics,
 - UV-to-NIR bidirectional reflection spectroscopy of solid surfaces (planetary analogue materials)
 - NIR-MIR Emission spectroscopy of minerals.

2) Reaction rate coefficients database (of astrochemical interest)

- implement the chemistry datamodel developed by the GRAMIS Team into the KIDA Database.
- Generate a Kinetic Database for Astrochemistry, + access interfaces.

→ VO compliant infrastructures, building stones of IDIS