

Ion irradiation and implantation from Mercury to the outer Solar System:

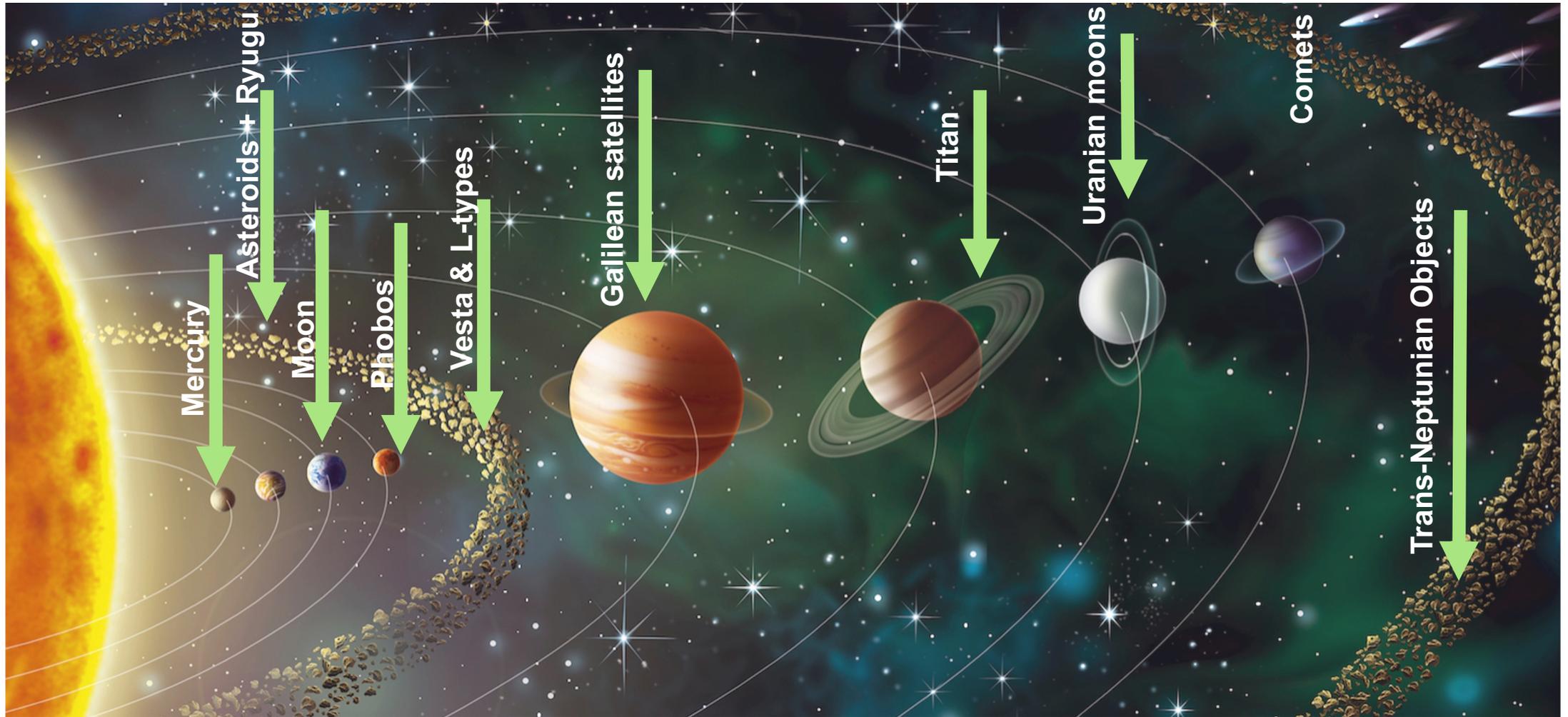
Some recent results from INGMAR@Sidonie

Rosario Brunetto, Cateline Lantz, Léa Bouvet, Marie Thabault, Sasha Cryan, Philippe Benoit-Lamaitrie, Jérôme Bourçois, Elsa Hénault, Obadias Mivumbi, and contributions from many other colleagues (IAS, IJCLab, IPAG, Univ. Florence, IAPS, etc.)

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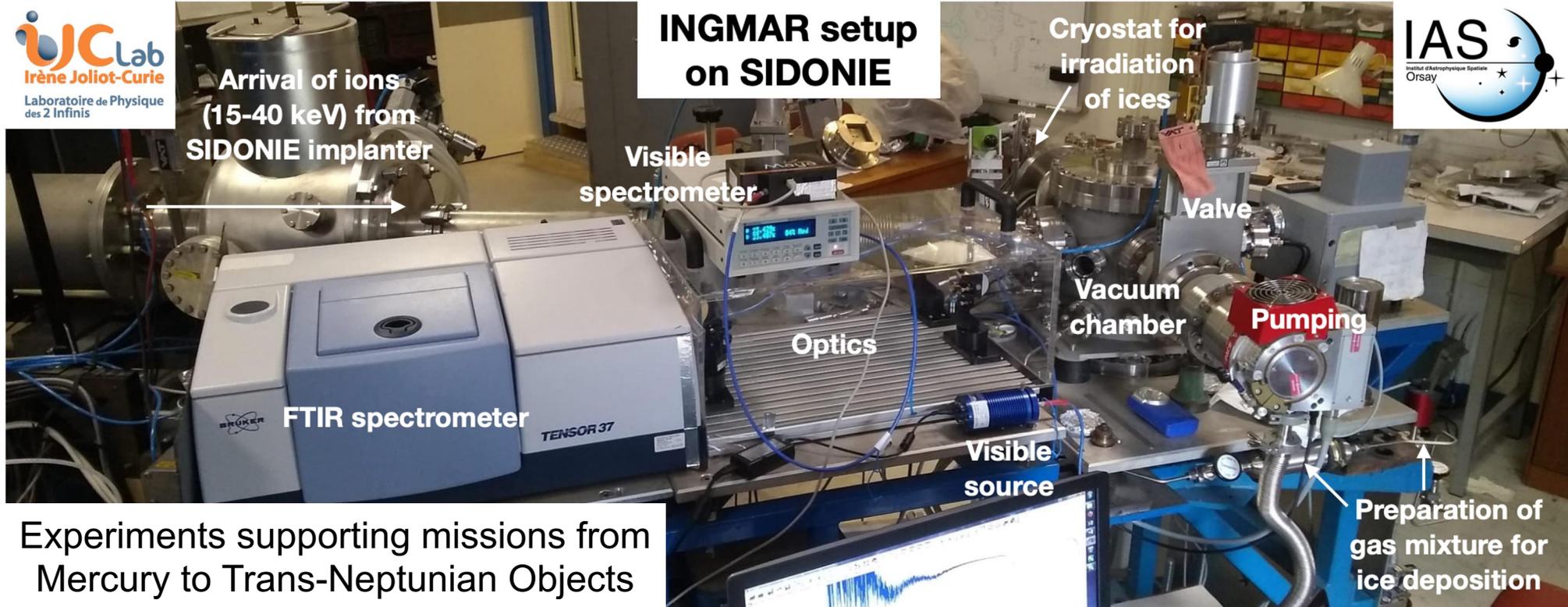


The bodies and missions of interest



Hayabusa2, OSIRIS-REx, JWST, BepiColombo, MMX, JUICE, etc.

“Irradiation de Glaces et Météorites Analysées par Réflectance VIS-IR” at IAS&IJCLab Orsay



Targets: meteorites, minerals, carbons, ices (up to 100 μm thick)...

Ions can be H^+ , He^+ , C^+ , O^+ , Ar^+ , etc.

Energy: 15-40 keV

Spectral range: 0.4-25 μm Transmission, 0.4-5 μm Reflection

Sample temperature 12-300 K

μFTIR at synchrotron SOLEIL (guaranteed time)