

Jeudi 5 octobre 2023 à 11h (IAS, bâtiment 121, salle 1-2-3)

(In)visible Martian sulfates: formation and alteration of one of Mars's most common aqueous minerals

Rachel Sheppard (IAS)

Sulfates are one of the most dominant secondary minerals on Mars and a valuable record of past surface and subsurface aqueous conditions. However, they are also highly soluble and easily remobilized by subsurface fluid flow, and they are possibly still active in the modern hydrological cycle. By utilizing orbital, rover, and laboratory datasets, we will examine the visibility of different classes of martian sulfates and discuss what their spectral features and mineral structure tell us about past and present martian water budget.