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Remote sensing observations of Hayabusa2: Linking ground-based observations and the returned sample analysis

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Hayabusa-2 is the second Japanese sample return mission from a C-type asteroid 1999JU3. In this presentation, we introduce the specification and operation plan of the four nominal onboard remote-sensing instruments, i.e. Asteroid Multi-band Imaging Camera (AMICA), LIDAR, Near-Infrared spectrometer (NIRS3) and Thermal InfraRed Imager (TIR). The in-situ observations will provide the geological context of the returned sample. We expect to link the global structure of asteroid belt revealed by ground-based telescopic observations and detailed analysis of returned sample from a specific asteroid through remote-sensing by Hayabusa-2 spacecraft.

Keywords: remote sensing, asteroid, Hayabusa2, sample return, camera