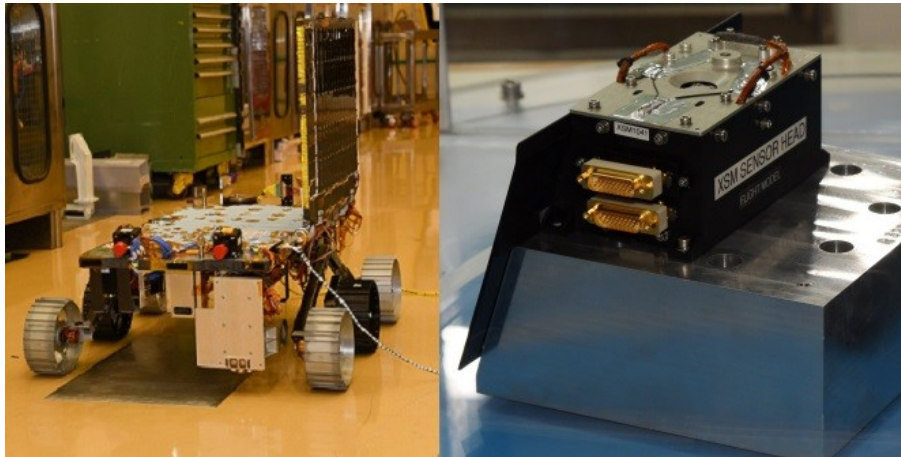
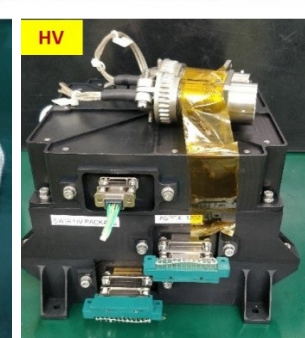
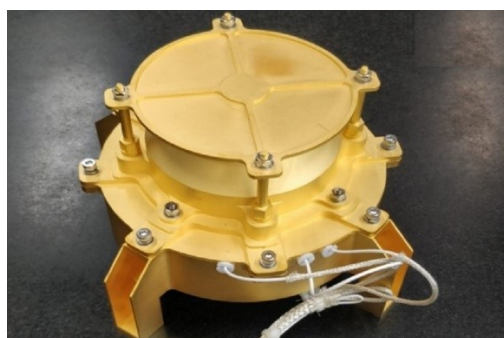
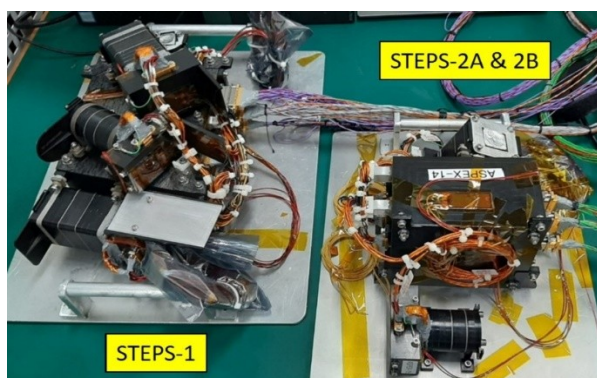


Planetary Instrumentation Development Laboratory



**Chandrayaan-3 Payload APXS onboard PRAGYAAN rover (left),
Chandrayaan-2 Orbiter Payload XSM (right)**

Many of the research objectives of planetary science are achieved through planetary exploration, for which the development of scientific instruments for the planetary missions, is the prime focus of this section. In the last two decades, ISRO is actively working on Planetary exploration missions and there are several planetary missions planned in the future as well. PRL has played a crucial role in planning and executing these missions and also actively contributing in the development of scientific instruments to study the surface, subsurface and atmosphere of the planetary bodies. PRL has developed scientific instruments for Chandrayaan-1 (High Energy X-ray Spectrometer - HEX), Chandrayaan-2 (Solar X-ray monitor - XSM), Chandrayaan-2&3 (Alpha Particle X-ray Spectrometer - APXS and Chandra's Surface Thermophysical Experiment - ChaSTE) and Aditya L1 (Aditya Solar wind Particle EXperiment - ASPEX) missions. There are several scientific instruments are being developed for the upcoming Venus Orbiter, ISRO-JAXA Rover, Mars Orbiter Mission - 2 and other upcoming planetary/space missions.



**Aditya Solar wind Particle EXperiment - ASPEX instrument onboard
Aditya-L1 mission**