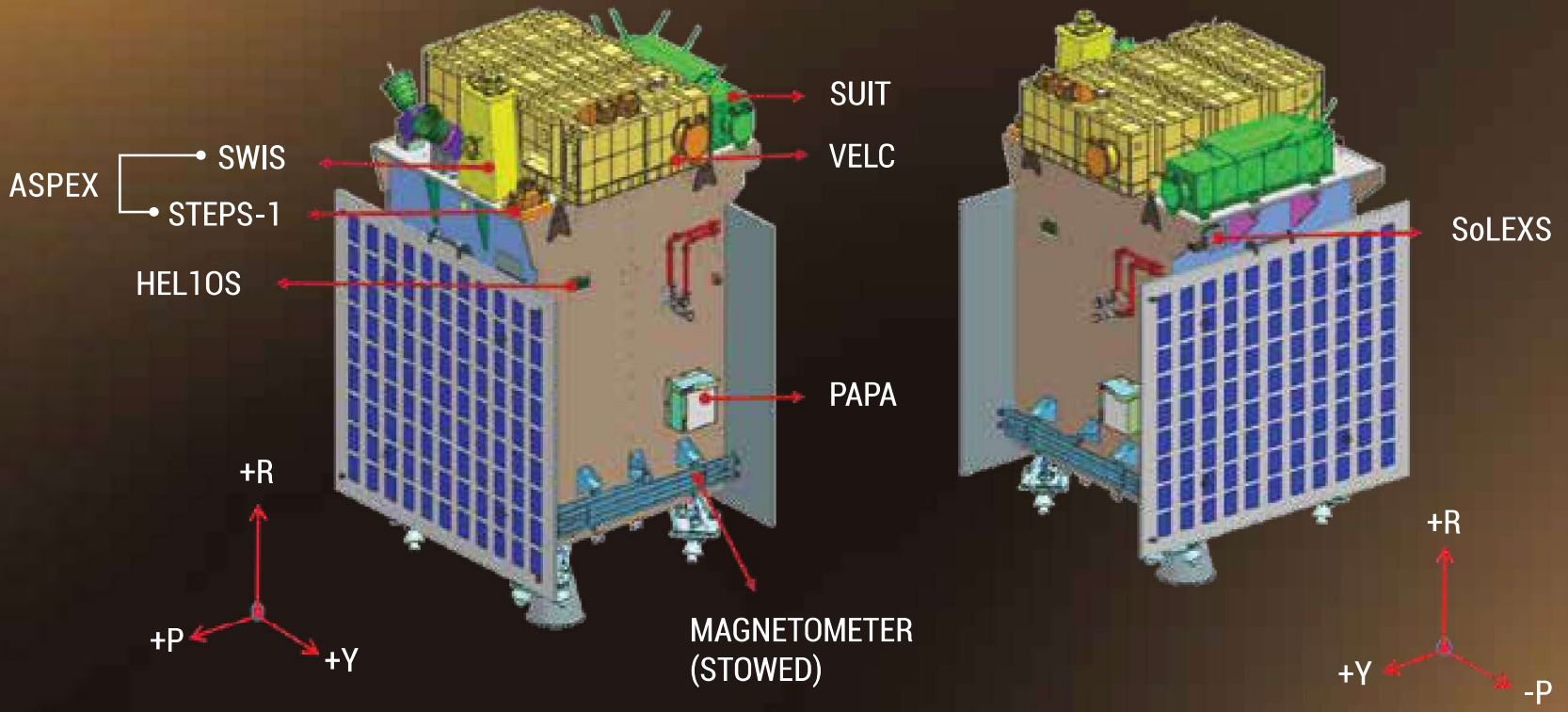
Aditya-L1 Payloads On The Spacecraft

The location of all seven payloads—VELC, SUIT, SoLEXS, HEL1OS, ASPEX, PAPA and MAG are shown in the figure below.



R, P, and Y indicate the Raw, Pitch, and Roll axis of the spacecraft.

ADITYA-L1

Science Payloads

The spacecraft carries seven scientific payloads for systematic study of the Sun. All payloads are indigenously developed in collaboration with various ISRO Centres.

VELC

Visible Emission Line Coronagraph is designed to study solar corona and dynamics of coronal mass ejections. The payload is developed by **Indian Institute of Astrophysics**, Bengaluru in close collaboration with ISRO.

SUIT

Solar Ultra-violet Imaging Telescope to image the Solar Photosphere and Chromosphere in near Ultra-violet (UV) and, to measure the solar irradiance variations in near UV. The payload is developed by **Inter University Centre for Astronomy and Astrophysics**, Pune in close collaboration with ISRO.

SoLEXS
HEL1OS

Solar Low Energy X-ray Spectrometer and **High Energy L1 Orbiting X-ray Spectrometer** are designed to study the X-ray flares from the Sun over a wide X-ray energy range. Both these payloads are developed at **U R Rao Satellite Centre**, Bengaluru.

ASPEX
PAPA

Aditya Solar wind Particle EXperiment and **Plasma Analyser Package for Aditya** payloads are designed to study the solar wind and energetic ions, as well as their energy distribution. ASPEX is developed at **Physical Research Laboratory**, Ahmedabad. PAPA is developed at **Space Physics Laboratory, Vikram Sarabhai Space Centre**, Thiruvananthapuram.

MAG

Magnetometer payload is capable of measuring interplanetary magnetic fields at the L1 point. The payload is developed at **Laboratory for Electro Optics Systems**, Bengaluru.