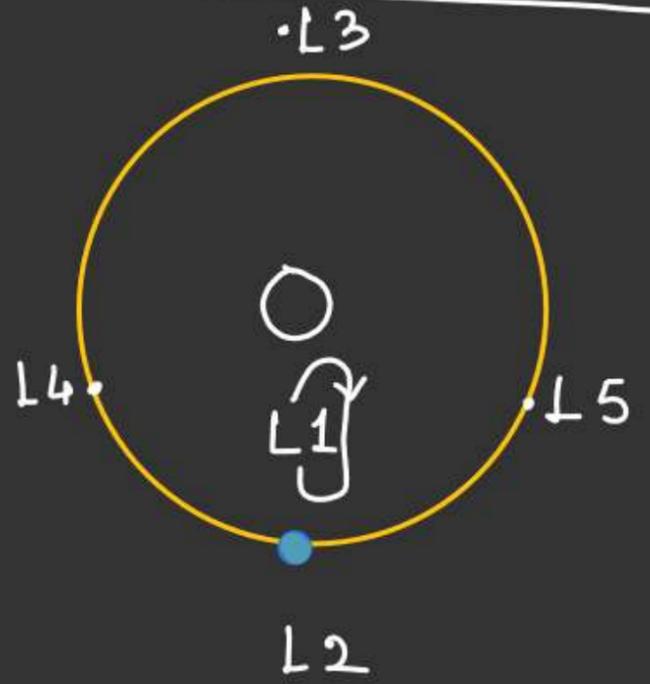


# Science & Technology

By Dr. Abhishek Sir



# Aditya L-1 Mission



## Lagrangian Point

= A point in the space with gravitational balance in a such a way that this can be orbited around.

## Halo orbit

An orbit without a focal body

eg. Lagrangian Point orbits

## Basics

A space observation satellite to study the Sun

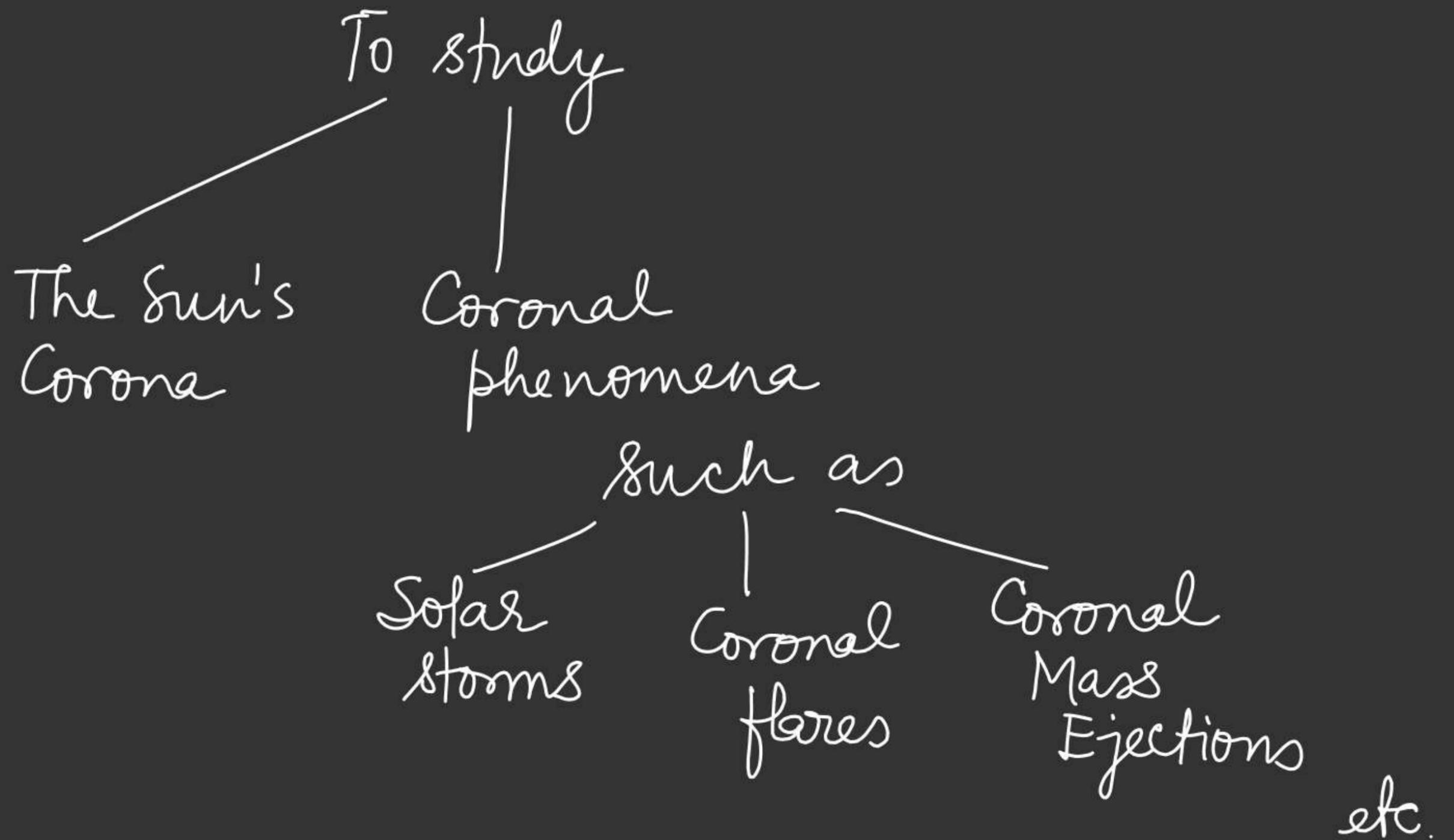
↓  
Placed into the halo orbit around

L1 point ( $\sim 1.5 \times 10^6$  km i.e.  $\sim 1\%$  of the distance b/w E & S)

India's first solar observ<sup>n</sup> mission

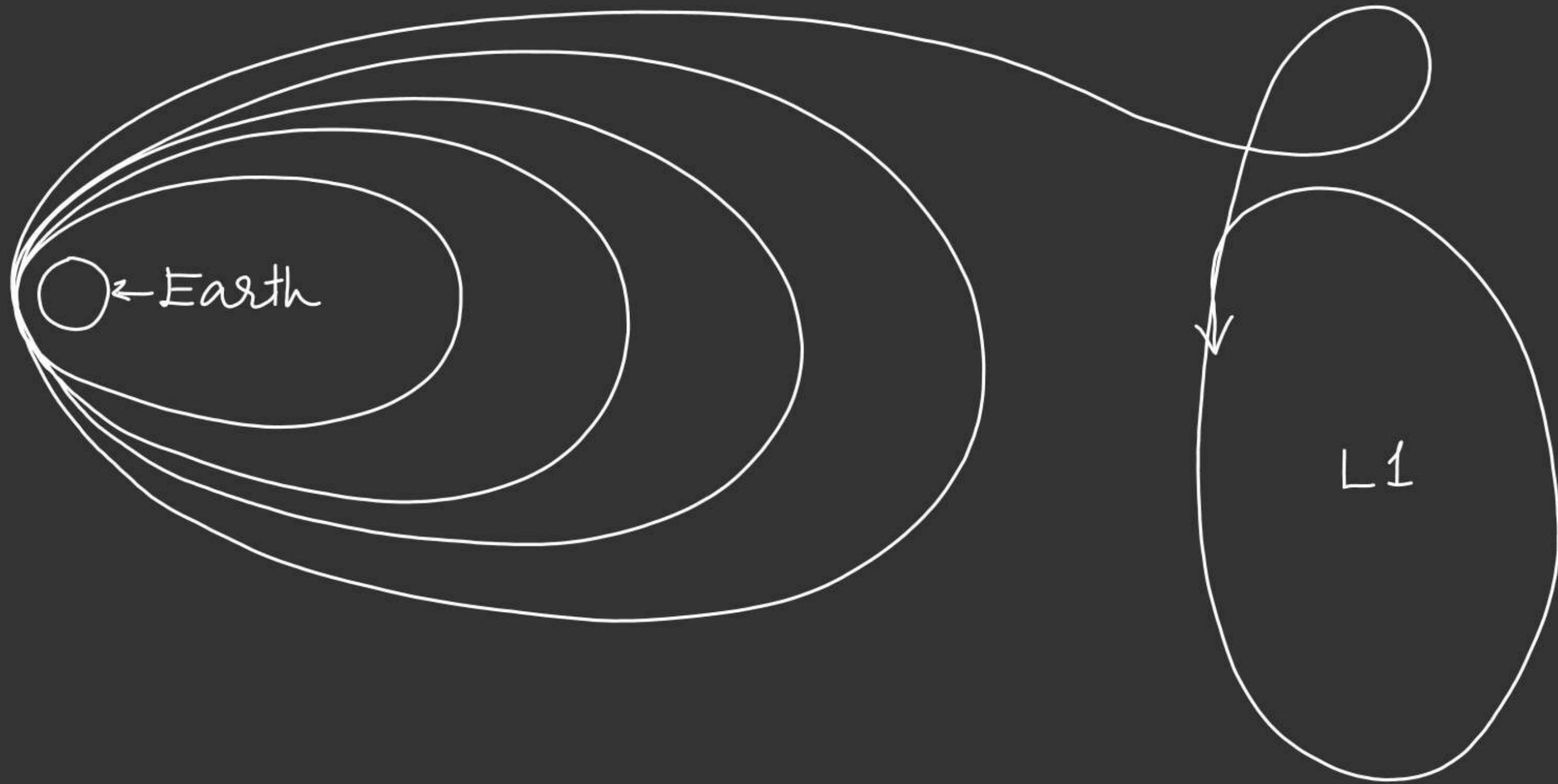
Launched on 02.09.23 with PSLV

↳ Entered its orbit on 06.01.2024



## Launch

- Using PSLV-C59
- into a transfer orbit
- using 5 orbital manoeuvres



① VELC

## Significance

(1) Self reliance in studying the Sun

(2) High quality data on the Sun & the solar phenomena

↳ Better understanding

(3) Understanding of the effects of sun's energy & particle ejections on satellites (esp. Comm. Sat)

# Chandrayaan-3

ISRO's  
3rd Moon  
Mission

Launched  
in July, 2023  
↓  
with LVM-3

Landed on  
moon surface  
on 23/08/2023



