## INDIA'S STAR RISES

Another giant leap in space programme as Isro's Aditya-Ll is successfully placed in halo orbit near sun

## Soumya Pillai

NEW DELHI: At 4pm on Satur-day, India made history by park-ing its observatory — Aditya-L1 — in an orbit raround Lagrange Point I, about 1.5 million kilo-metres from us, setting the stage for at least five years of observations. Scientists at the Indian Space Reggard, Popularities

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## PM MODI LEADS IN CONGRATULATING TEAM ON SUCCESS OF SOLAR MISSION

OF SOLAR MISSION
NEW DELHI: The successful
docking Aditya-L1 in a halo
orbit around Lagrange Point 1
drew congratulatory messages
from across the political specmedia Modi leading the wishes.
Thadia creates yet another
landmark. India's first solar
observatory Aditya-L1 reaches
its destination. Modi said and
lauded the 'relentless dedication' of scientism. Modi said and
lauded the 'relentless dedication' of scientism.
India ded the scientific community, and said, "This mission
will enhance our knowledge of
the sun-earth system and benefit the entire humanity.
"From moon walk to sundance," remarked
jittendra Singh,
recalling the
laro successes
including the
soft landing of
Chandrayaan-3
and the launch of
the NPOSIL. 322

## 127-day journey paves way for



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NEW DELHI: The Adityua-Li Spacecraft on Saturday completed a 127-day Journey to reach its final parking spot, readying itself for five years of crucial observations about variently of the control of th

entific community but for the world.

"Understanding the Sun is not important for India alone, everyone around the world is looking forward to the findings," Somanath said in his address to media after the space agency's scientists performed the final set of manoeuvers to place the craft in a halo orbit around I.I.

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loads; Solar Ultraviolet Imaging Telescope (SUIT); Solar Low Energy K-ray Spectrometer (Sel-EXS); High Energy I Orbiting X-ray Spectrometer (HELIOS), which are remote (HELIOS), which are remote estinsing paths and the self-energy in the self

remaining three payloads (ASPEX, PAPA and Advanced Tri-axial High Resolution Digital Magnetometers) will carry out

in-situ studies of particles and fields at L1 providing scientific studies of the propagatory effect of solar dynamics in the interplanetary medium, the space agency said.

Somanath said that Aditya-L1 mission will unravel many aspects of the space weather, which will prove to be crucial for the scientific community world one.

trat activity on the sun's surface creates a type of weather called space weather. While the Sun is around 150 million kms from the Earth, space weather can affect

system, in worst cases damaging satellites and causing electrical blackouts on Earth.
"Strong solar flares generate intense radiation, hurling extreme ultraviolet and X-ray photons our way. CMEs (coronal mass, siections) photons our way. CMEs (coronal mass ejections) are massive eruptions that eject vast amounts of magnetized plasma, reaching speeds up to millions of km per hour. These are sources of severe space weather, 'sald Dibyendu Nandi, professor of physics and head, Center of Excellence in Space Sciences India, Indian Institute of Science Education and Research in Kolkata. another landmark.

Another grand feat

ready to lead others also going to be an

Aditya-Ll is for the whole of the world, not for India alone, for all of us to understand and

make use of its scientific importance S SOMANATH,