

# CASTOR

The Cosmological Advanced Survey Telescope for Optical and uv Research

The Cosmological Advanced Survey Telescope for Optical and uv Research https://www.castormission.org





CASTORの概要

The Cosmological Advanced Survey Telescope for Optical and uv Research

# ・2026年打ち上げを目指す口径1m紫外線可視 光広視野宇宙望遠鏡(500億円規模)

 ・3色同時撮像広視野カメラ(150-550nm、0.25平 方度、0.15秒角分解能)はすばるとの親和性が 高い

カナダ(CAS)、アメリカ(JPL)、インド(ISRO)、
イギリスによる国際プロジェクトであり、日本から
望遠鏡や装置などでも貢献できる可能性もある



### **CASTOR vs. Hubble: Field of View**

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#### **The CASTOR Primary Science Survey**

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# **CASTOR's Science Goals**

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SI/RVEY

**ARY** 





### **Mission Design: Telescope and Structure**

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## **Mission Design: Launch and Orbit**

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#### Astrosat launch,09/28/2015





- Polar Satellite Launch Vehicle (PSLV): a possible ISRO contribution to CASTOR.
- 800 km sun-synchronous low-Earth orbit.
- dawn-dusk polar terminator orbit.



Figure 5-7: Dawn-Dusk (LTAN 06:00) Sun Synchronous Orbit Configuration

**PSLV** Accommodation