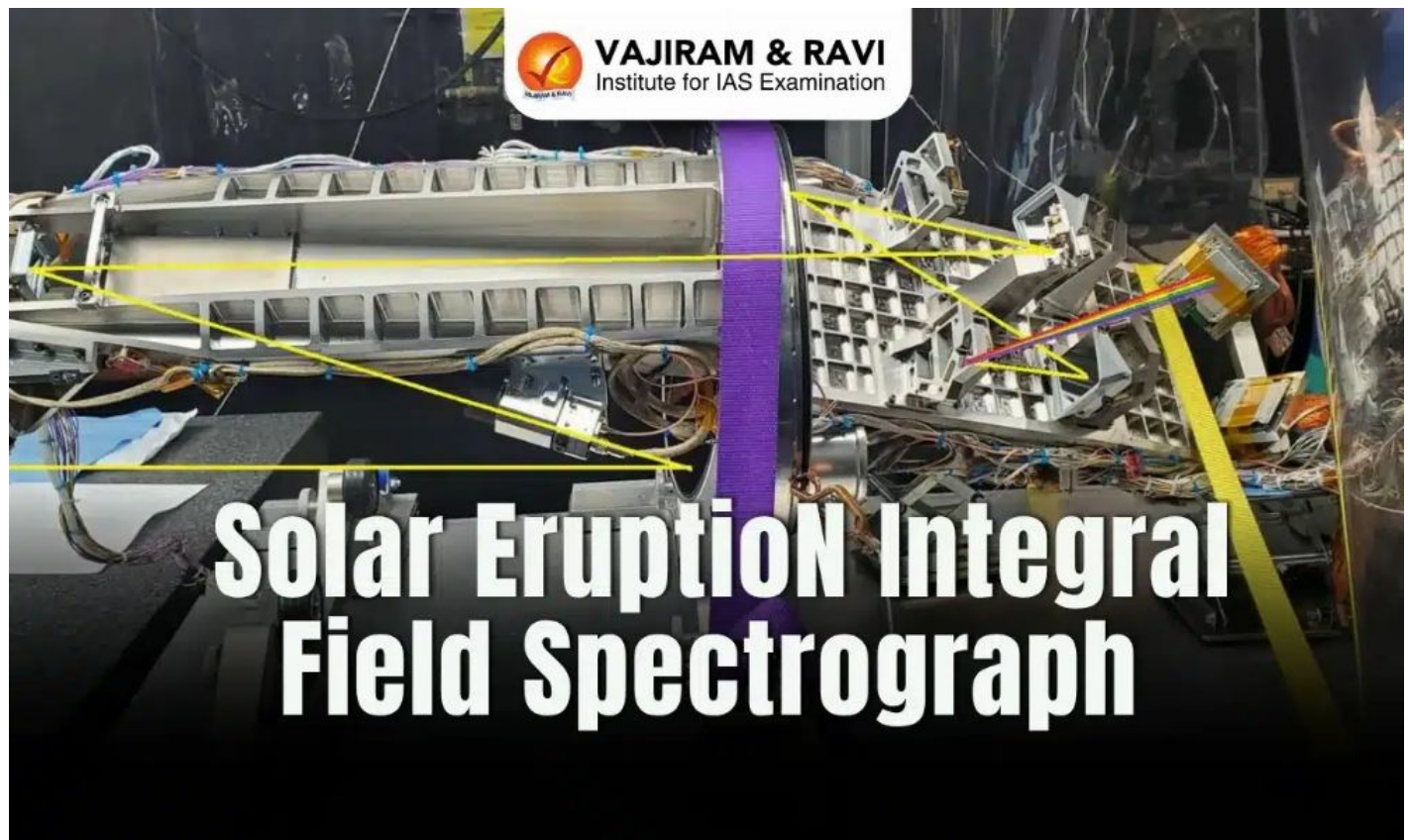


Solar EruptionN Integral Field Spectrograph

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Solar EruptionN Integral Field Spectrograph Latest News

NASA, along with a team of international solar physicists, will launch a sounding rocket Solar EruptionN Integral Field Spectrograph (SNIFS) experiment from New Mexico.

About Solar EruptionN Integral Field Spectrograph

- Its **sounding rocket** is designed to break new ground by using a unique set of capabilities to probe the most vexingly **complex region of the solar atmosphere**, the **chromosphere**.
- The SNIFS rocket mission has a primary objective to explore the energetics and dynamics of the chromosphere using a next-generation solar spectral imager.
- It is the first ever **solar ultraviolet integral field spectrograph**, an advanced technology **combining an imager and a spectrograph**.
- Imagers capture photos and videos, which are good for seeing the combined light from a large field of view all at once.

- **Spectrographs dissect light into its various wavelengths**, revealing which elements are present in the light source, their temperature, and how they're moving — but only from a single location at a time.
- The SNIFS mission combines these two technologies into one instrument.
- It will **observe a magnetically active region** on the Sun and capture high-resolution spectroscopic data from both the **chromosphere and the transition region** — in real time
- SNIFS will **target the hydrogen Lyman-alpha line** — the brightest line in the solar ultraviolet spectrum and one of the most powerful diagnostics for upper chromospheric conditions.

Source: IE

Source: <https://vajiramandravi.com/current-affairs/solar-eruption-integral-field-spectrograph/>

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