

Astronomy:HH 24-26

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HH 24-26

Molecular cloud

Herbig-Haro object



HH 24 (top), HH 25 (below the blue nebula in the middle) and HH 26 (red clouds at the bottom)

Observation data: J2000.0^[1] epoch

Right ascension	05 ^h 46 ^m 07.34 ^s ^[1]
Declination	−00° 13′ 31.3″ ^[1]
Distance	1300 ly
Constellation	Orion
Designations	HH 24, HH 25, HH 26, JCMTSF J054607.3-001333, HH 24/26, HH 24-26, HH 24-27

HH 24-26 is a molecular cloud and star-forming region containing the Herbig-Haro objects HH 24, HH 25 and HH 26. This region contains the highest concentration of astrophysical jets known anywhere in the sky.^[2] The molecular cloud is located about 1400 light-years away in the L1630 dark cloud, which is part of the Orion B molecular cloud in the constellation of Orion.^{[3][4]}

The region contains multiple protostars (two class 0 and one class I) and four more evolved IRAS sources. The three protostars are driving the Herbig-Haro objects in this region.^[3]

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Observation

The L1630 dark cloud also contains NGC 2071 and the Flame Nebula. HH 24-26 is located just a few arcminutes south of Messier 78.^[5]

HH 24

The image of HH 24 taken by the Hubble Space Telescope is probably the most well known image of this Herbig-Haro object. HH 24 resembles a lightsaber from the science fiction movies *Star Wars* and the Hubble image was published during the release of *Star Wars Episode VII: The Force Awakens*.^[6]

HH 24 contains a class 0 protostar, which might be a proto-binary system. The disks around these objects are highly misaligned, which is a sign of turbulent fragmentation.^[7]



An image of HH 24 taken by the Hubble Space Telescope

References

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2. "Searching for Orphan Stars Amid Starbirth Fireworks" (<https://www.gemini.edu/node/12429>) (in en). 2015-09-25. <https://www.gemini.edu/node/12429>.
3. Benedettini, M.; Giannini, T.; Nisini, B.; Tommasi, E.; Lorenzetti, D.; Di Giorgio, A. M.; Saraceno, P.; Smith, H. A. *et al.* (July 2000). "The ISO spectroscopic view of the HH 24-26 region" (in en). *A&A* **359**: 148–158. ISSN 0004-6361 (<http://www.worldcat.org/issn/0004-6361>). Bibcode: 2000A&A...359..148B (<http://adsabs.harvard.edu/abs/2000A&A...359..148B>).
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External links

Astronomy Picture of the Day

- APOD: 2014 February 4 - A Particle Beam Jet forms HH 24 (<https://apod.nasa.gov/apod/ap140204.html>)
- APOD: 2015 December 18 - Herbig-Haro 24 (<https://apod.nasa.gov/apod/ap151218.html>)
- APOD: 2018 March 11 - Dual Particle Beams in Herbig-Haro 24 (<https://apod.nasa.gov/apod/ap180311.html>)



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