

# Dwarf Planet Pluto

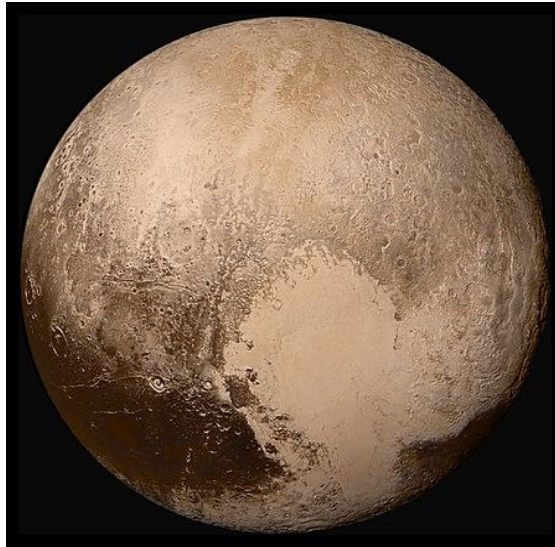


Bild (Pluto):

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[https://de.wikipedia.org/wiki/Pluto#/media/Datei:Global\\_LORRI\\_mosaic\\_of\\_Pluto\\_in\\_true\\_color.jpg](https://de.wikipedia.org/wiki/Pluto#/media/Datei:Global_LORRI_mosaic_of_Pluto_in_true_color.jpg)

It got its name (astronomical symbol: ♇) after the Roman god of the underworld. Pluto is the largest and second most massive dwarf planet. The class of plutoids (dwarf planets with similar properties) is named after it. Pluto had the misfortune that with increasing measurement accuracy its size decreased continuously, which ultimately led to its downgrading to the dwarf planets. It moves around the Sun with a 3:2 resonance to Neptune. Pluto performs retrograde rotation bound to the moon Charon. Charon and Pluto were the first known objects to perform a double bound rotation. Pluto has a thin atmosphere of nitrogen. It itself consists of rock and water ice. A large heart-shaped structure on the surface is striking. There are five moons orbiting Pluto. The orbits of the smaller moons are in orbital resonance with Charon (ratio 1:2:3:4:5). Since Pluto and Charon form a binary system (similar to Moon-Earth), the moons Nix and Hydra are the first known objects with stable orbits in a binary system.

## Important data of Pluto:

Semi-half axis:	39.48 AU (5,906.4 mio. km)
Perihelion – Aphelion:	29.66 – 49.31 AU
Eccentricity:	0.25
Ecliptic inclination:	17.16°
Sidereal rotation period:	247 a 343 d
Average orbital speed:	4.67 km/s
Smallest – biggest Earth distance:	28.641 – 50.322 AU
Equator diameter:	2,374 km
Polar diameter:	2,374 km
Masse:	about 0.002 Earth masses ( $1.303 \cdot 10^{22}$ kg)

Mean desitiy:	1.860 g/cm <sup>3</sup>
Surface gravity:	0.62 m/s <sup>2</sup>
Escape velocity:	1.21 km/s
Sidereal rotation period:	6 d 9 h 17 min 34 s
Neigung der Rotationsachse:	122.53°
Temperature (min./Medium/max.):	-240 °C (33 K) / -229 °C (44 K) / -218 °C (55 K)

**Link:** <https://en.wikipedia.org/wiki/Pluto>

**Earth Moon:**

[https://astrowis.de/wp-content/uploads/Mond\\_Charon\\_englisch.pdf](https://astrowis.de/wp-content/uploads/Mond_Charon_englisch.pdf)