

= HD 2039 =

HD 2039 is a yellow dwarf or yellow subgiant star in the constellation Phoenix . The star is not visible to the naked eye , and lies approximately 330 light years away from the Sun . HD 2039 is a relatively stable star , and an exoplanet at least three times the mass of the planet Jupiter has been discovered in its orbit ; this exoplanet , known as HD 2039 b , was the 100th exoplanet to be discovered .

= = Nomenclature = =

The designation HD 2039 from the Henry Draper Catalogue . The catalogue , which was published between 1918 and 1924 , was based on the work of Annie Jump Cannon and her team between 1911 and 1915 . HD 2039 does not have a common , colloquial name that is characteristic of stars like Sirius , Procyon , and Aldebaran .

= = Characteristics = =

HD 2039 is a stable G @-@ type star , meaning it shines with white light that can be seen in the Sun . In terms of mass , the star exhibits almost identical properties . HD 2039 exhibits a radius approximately six @-@ fifth times the size of the Sun 's . The star is slightly hotter than the Sun ; while HD 2039 has a temperature of 5984 K , the Sun 's surface temperature lies nearly 200 kelvins lower at 5778 K. HD 2039 is unusually metal @-@ rich , which has attracted the attention of astrophysicists .

= = = Distance and visibility = = =

The star 's magnitude as observed from Earth is 9 ; this signifies that the body is not visible with the naked eye , but can be seen with a telescope . HD 2039 lies roughly 330 light years from the Sun , which is about as far from the Sun as the second brightest star in the night sky , Canopus .

= = Planetary system = =

In 2002 , a planet was found by the Anglo @-@ Australian Planet Search team to be orbiting the star in a very eccentric orbit . It has a minimum mass more than three times that of Jupiter and has an orbital period of over three years . The planet orbits its star at a distance of approximately two AU away ; the planet Earth , in comparison , orbits at a distance of one AU away from the Sun . HD 2039 b 's discovery was reported quietly ; no press release was provided by the observatory that discovered the star 's planet , and no formal announcement of the planet 's existence was made . The entity was the 100th exoplanet to have been verified by the scientific community .