

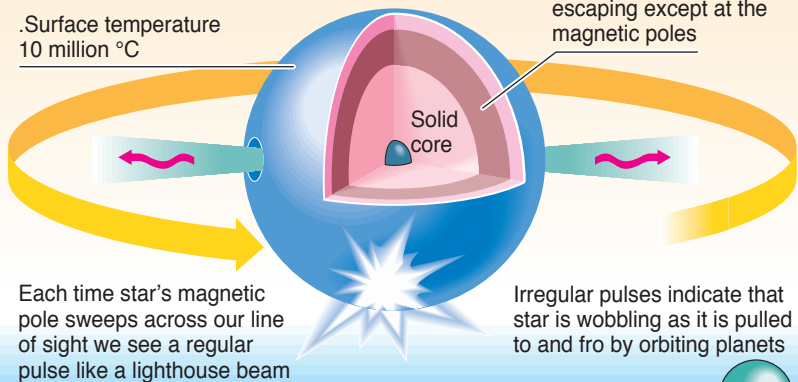
# Planetary system found outside solar system

Radio-astronomers have detected two planets orbiting a newly-found neutron star, or pulsar. It is located 1,300 light years away from earth

.A pulsar is as dense as the sun but only about 30 kilometres wide

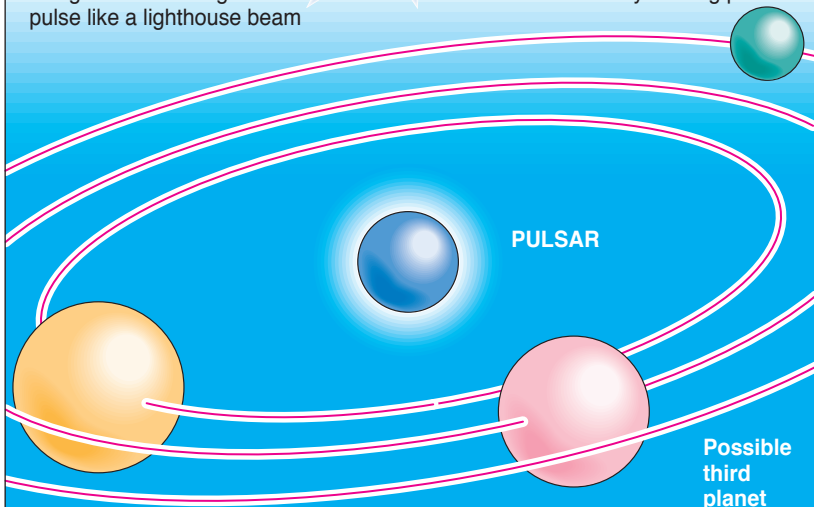
.Surface temperature 10 million °C

.Intense magnetic field prevents radiation escaping except at the magnetic poles



Each time star's magnetic pole sweeps across our line of sight we see a regular pulse like a lighthouse beam

Irregular pulses indicate that star is wobbling as it is pulled to and fro by orbiting planets



## PLANET 1

3.4 times larger than earth,  
49.3 million km from star

## PLANET 2

2.8 times larger than earth,  
74.8 million km from star

Possible  
third  
planet  
in more  
distant  
orbit