**Why is Earth’s Orbit tilted?**

Have you ever wondered why the Earth’s orbit is tilted to the Sun’s equator? A new study has revealed that there could have been a young star that caused the Earth’s orbit to tilt when it was in its formation stages when that star came close and pulled our developing planet out of the whack with the Sun’s equator. It has also revealed that Sun had a near stellar neighbor at the time when the Earth was formed. It is known that the Earth’s orbit is tilted by 70 relative to the Sun’s equator.

In 1995, astronomers made a discovery of the first object circling close to its star. Tilted orbits are an outcome of disk migration as planetary systems are usually born in multi stellar environment. In a work appeared in one of the Journals, Konstantin Batygin of the Harvard Smithsonian Center for Astrophysics in Cambridge, Massachusetts showed calculations of how a young star‘s proto-planetary disk gets tilted by a second star orbiting a first. When a planet spirals inward, it ends on a path that’s out of its normal route that is of the Sun’s equator and it can also be tested according to him.

The study conducted by NASA’s Kepler spacecraft has measured the tilt of a multi planet system that suggested that they were aligned to their star. Gravitational force is also one of the major factors that contribute to the tilting of the planet from its orbit. This gives more evidence that the Earth is tilted due to some other star.