

## NKOSITHANDILEB SOLAR

# The world s first solar system



## Overview

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What is the origin of the Solar System?

In 1992 the Hubble Space Telescope obtained the first images of proto-planetary disks in the Orion nebula. They are roughly on the same scale as the Solar System and lend strong support to this theory. There have been many attempts to develop theories for the origin of the Solar System. None of them can be described as totally satisfactory.

Can planet formation tell us about our own Solar System?

It's a system that can tell us about the very first steps of planet formation, and may even contain clues about how our own Solar System formed. "For the first time, we have identified the earliest moment when planet formation is initiated around a star other than our Sun," says astronomer Melissa McClure of Leiden University in the Netherlands.

Which planets were born in the Solar System?

The hot, rocky material near the centre of the solar system was sculpted into terrestrial planets with metal cores - Mercury, Venus, Earth and Mars. On the cool edges, the gas and ice giants were born - Saturn, Jupiter, Neptune, and Uranus.

How long did Solar System formation last?

This model for solar system formation was widely accepted for about 100 years. During this period, the apparent regularity of motions in the solar system was contradicted by the discovery of asteroids with highly eccentric orbits and moons with retrograde orbits.

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The solar system as we know it began life as a vast, swirling cloud of gas and dust, twisting through the universe without direction or form. About 4.6 billion years ago, this gigantic ...

The first kilometer-sized planetesimals in the solar system, which grew to become the Earth and Jupiter's core, formed just after the condensation of these crystalline minerals.

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For the first time ever: impressive phenomenon discovered 1,300 light years away Using some of the world's largest telescopes, ...

For the first time, astronomers have caught a glimpse of a solar system just as it begins to form, spotting the first tiny seeds that will one day grow into planets taking shape ...

By comparing our solar system's history with the young disks ALMA observes around distant stars, scientists can trace the universal rules of planet formation--the cosmic ...

Solar system - Origin, Planets, Formation: As the amount of data on the planets, moons, comets, and asteroids has grown, so too have the problems faced by astronomers in ...

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For the first time ever: impressive phenomenon discovered 1,300 light years away Using some of the world's largest telescopes, researchers have found the earliest evidence yet ...

A fascinating glimpse into how a solar system like our own is born has been revealed with the detection of planet-forming 'pebbles' around two young stars. These seeds to make ...

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