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Solar system split



Overview

Did the Great Divide separate the Solar System?

In a study published today in Nature Astronomy, researchers from the United States and Japan unveil the possible origins of our cosmic neighborhood's "Great Divide." This well-known schism may have separated the solar system just after the sun first formed.

How does the Great Divide affect the Solar System?

Those bands, in turn, might pull the solar system's earliest building blocks into several distinct sinks -- one that would have given rise to Jupiter and Saturn, and another Earth and Mars. In the mountains, "the Great Divide causes water to drain one way or another," Mojzsis said.

Did a schism separate the Solar System?

This well-known schism may have separated the solar system just after the sun first formed. The phenomenon is a bit like how the Rocky Mountains divide North America into east and west. On the one side are "terrestrial" planet, such as Earth and Mars.

Does our solar system resemble two different planetary systems?

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The Great Divide: Our solar system resembles two very different planetary systems combined into one.

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A Spiraling Mystery Enter The "Great Divide" The Rocky Mountains of SpaceTime For Stress Testing The two planetary systems are divided as such: 1. The four major planets that are closest to the sun -- Mercury, Venus, Earth and Mars -- are compact, solid bodies made up largely of heavy elements such as silicon and iron. 2. The four outer planets -- Jupiter, Saturn, Uranus and Neptune -- are much larger and are mostly made up of light substances such See more on now.northropgrumman arXiv

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Our solar system resembles two very different planetary systems combined into one. These two groups of planets are separated by a disproportionately wide gap between ...

The stately solar system of today was in turmoil in its first several million years, theorists believe, with giant planets sowing chaos as they strayed far from their current orbits. ...

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