

**KREATYWNY ENERGY POLSKA**

# The grand tack model



## The grand tack model

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### The Grand Tack model: a critical review

Here we confront common criticisms of the Grand Tack model. We show that some uncertainties remain regarding the Tack mechanism itself; the most critical unknown is the timing ...

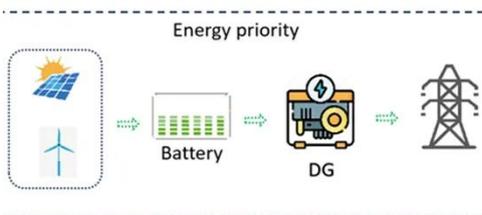
## Lunar and terrestrial planet formation in the Grand Tack scenario

The Grand Tack model is a giant planet migration and terrestrial planet formation paradigm designed to reproduce the structure of the inner Solar System, particularly the mass of Mars [31].



### The Grand Tack model: a critical review , Proceedings of the

We discuss how alternate models for the formation of the terrestrial planets each suffer from an internal inconsistency and/or place a strong and very specific requirement on the properties of the ...



## The Grand Tack An Overview Of The Next Big Thing In ...

Abstract The Grand Tack Model is a recent hypothesis concerning the evolution of the solar system's planets. It uses the in- and then outwards migration of giant planets Jupiter and ...



### The Grand Tack

The Grand Tack scenario The "Grand Tack" aims to explain the truncation of the planetesimal disk at 1.0 AU by way of the migration of the Giant Planets. We model the effects on the ...

## Searching for the grand tack in exoplanetary data , Astronomy

The grand tack model, more generally called the Masset and Snellgrove mechanism, is a planetary migration model whereby two giant planets via interactions with their natal disk migrated to ...



### What is the 'Grand Tack' hypothesis and how does it relate to the ...

In essence, the Grand Tack is considered the initial condition for the Nice Model. The Grand Tack sets up the planetary



configuration that allows the Nice Model's instability to occur. ...

### Grand Tack Model Definition

The Grand Tack model is a hypothesis that explains the formation and early evolution of the solar system. It proposes that the gas giant planets, particularly Jupiter and Saturn, underwent a complex ...



### ANALYSIS OF TERRESTRIAL PLANET FORMATION BY THE ...

The Grand Tack model of terrestrial planet formation has emerged in recent years as the premier scenario used to account for several observed features of the inner solar system. It relies on ...

### (PDF) The Grand Tack model: a critical review

Abstract The 'Grand Tack' model proposes that the inner Solar System was sculpted by the giant planets' orbital migration in the gaseous protoplanetary

disk.



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