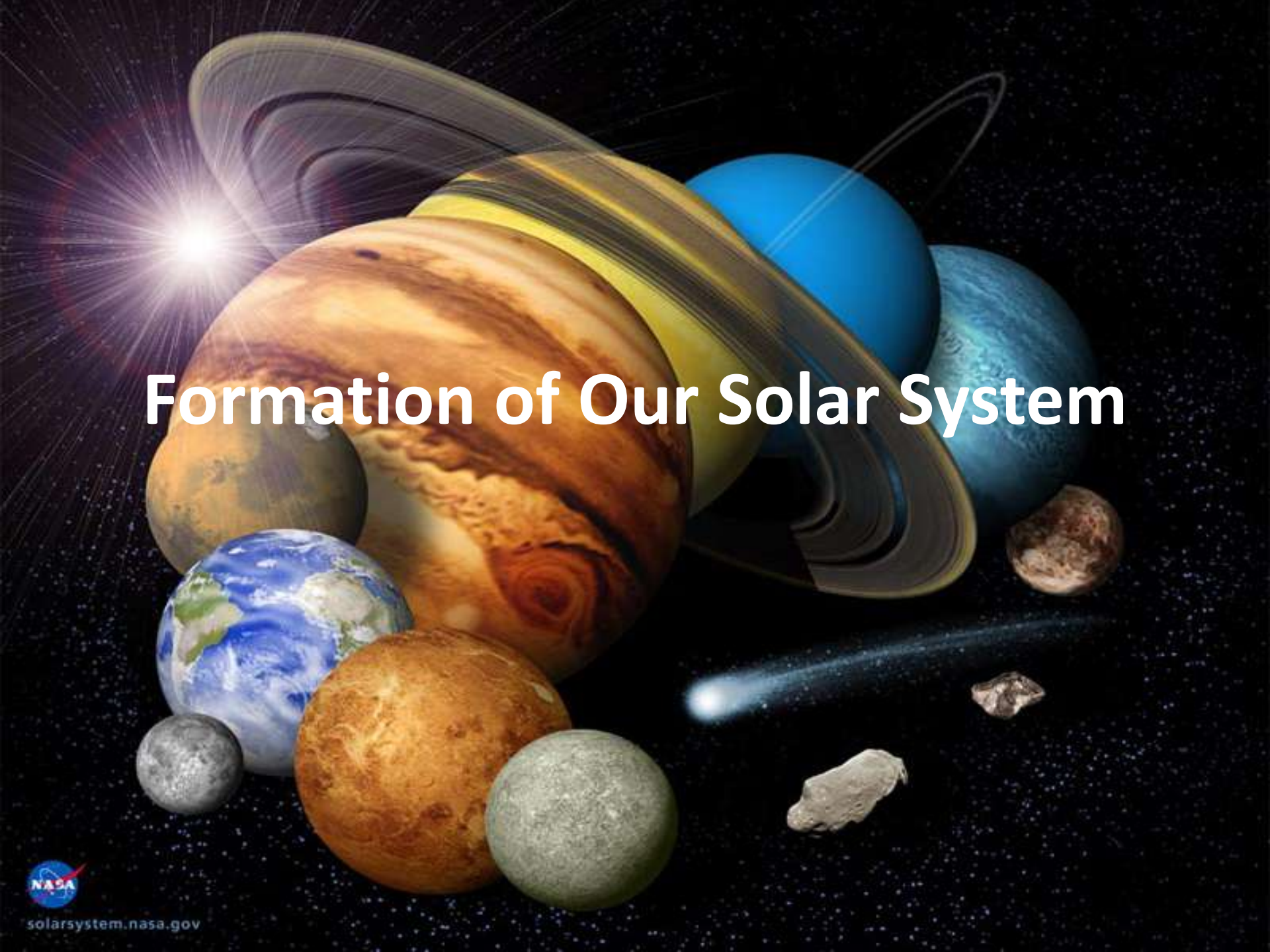

Formation of Our Solar System
solarsystem.nasa.gov

# Collapsing Interstellar Cloud

- An Interstellar Could is a collection of gas and dust between stars.
- Gravity can cause the interstellar cloud to condense and collapse

# Spinning Interstellar Cloud

- The cloud will begin to rotate spin faster forming a dense concentration at the center.
- This Solar Nebula would become the Sun

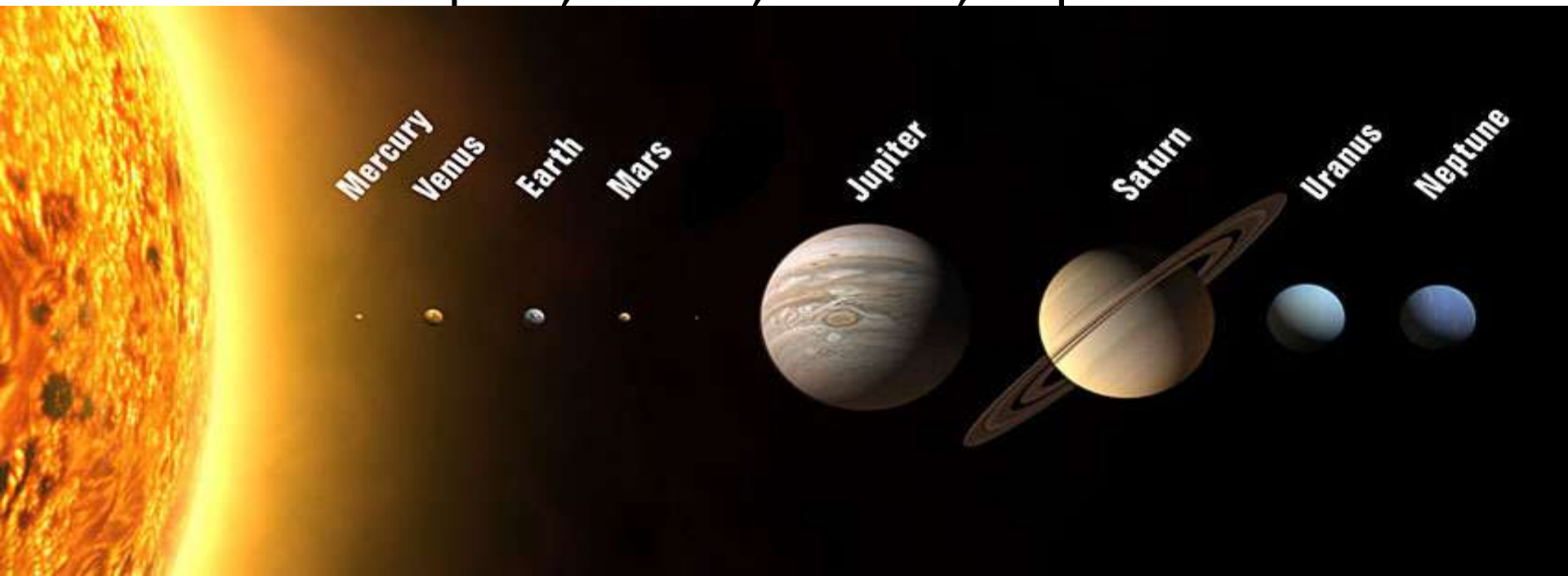
Check This Out

# Planet Formation

- As the temperatures cooled and the Sun's gravity pulled objects closer, planetesimals began to form

# Planetesimals into Planets

- The Planetesmials would form into inner and outer planets:
  - Inner –Mercury, Venus, Earth, Mars
  - Outer- Jupiter, Saturn, Uranus, Neptune



# Inner Planets

- Are made primarily of rocky dense material.
- Most inner planets do not have moons because the Sun's gravity absorbed these satellites.

# Outer Planets

- The first large planet to form was Jupiter. It grew over time by attracting icy planetesimals.
- The other outer planets couldn’t grow as large because of Jupiter’s gravity

# Debris

- Not all planetesimals turned to planets.
- There is an asteroid belt between the inner and outer planets.
  - Jupiter's gravity prevented this debris from becoming a planet