

These Slides Accompany the YouTube Video Tutorial:
<https://www.youtube.com/watch?v=0LwWFnA-Mh0>

ORIGIN OF EARTH

GASEOUS MASS THEORY - KANT

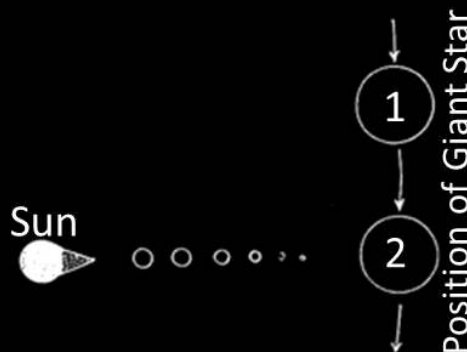
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NEBULAR THEORY - LAPLACE



- A: Nebula bulges at Equatorial Zone
- B: Bulged section separated from ring
- C: Ring coalesce to form globe which rotate around nebula in its orbit

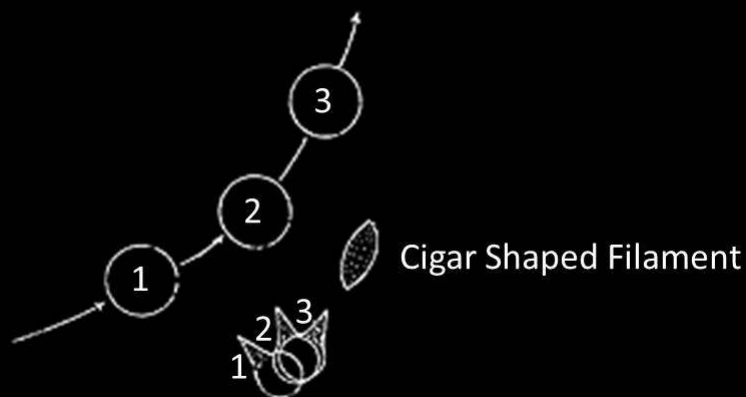
PLANETESIMAL THEORY – CHAMBERLIN & MOULTON



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Nebular Hypothesis	Planetesimal Hypothesis
Hot & gaseous nebula from which number of rings were formed & separated due to centrifugal force.	Cold nebula (sun) from which mass was ejected due to attraction of an intruding star.
Rings became planets due to condensation & consolidation of hot & gaseous mass of the nebula.	Small planetesimals accreted & aggregated with the nuclei of big planetesimals to form planets.
Planets & satellites were originally hot & large & gradually cooled & grew smaller.	Planets & satellites were originally cold & small & gradually heated & became larger.
Outer most planets were formed first & others at later periods.	Planets & satellites were formed at the same time.
Earth always had an atmosphere.	Initially earth was without an atmosphere.

TIDAL THEORY – JEANS AND JEFFREYS



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Tidal Hypothesis	Planetesimal Hypothesis
Molten hot mass of sun was ejected by the gravitational pull of the intruding star	Cold mass of sun was ejected by the attraction pull of the intruding star
Planets were formed by the cigar shaped filaments resulting in planets larger in the center & smaller towards the ends	Ejected cold mass of sun was scattered & planets formed without any defined sequence in their size & arrangement
Planets & satellites originally were hot & gradually cooled down	Planets & satellites were originally cold & gradually heated with collision of planetesimals around their nuclei
It says that the molten hot mass of sun was ejected by the gravitational pull of the intruding star	It says that cold mass of sun was ejected by the attraction pull of the intruding star