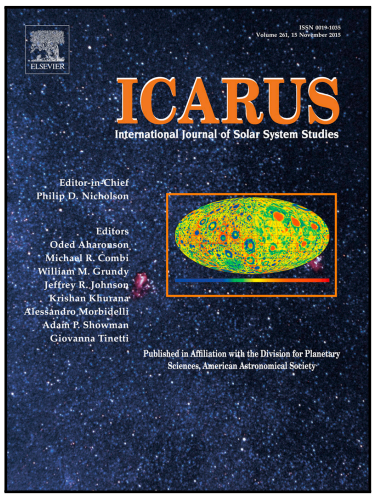

Orbital evolution of Saturn's mid-sized moons and the tidal heating of Enceladus

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Highlights

- How Saturnian mid-sized moons avoid resonant capture during orbital evolution?
- The tidal orbital evolution of these moons was investigated by N-body simulations.
- The ring torque is a key to reproduce the current orbits of the mid-sized moons.
- The stored heat in Enceladus during the evolution may explain the current heat flow.