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N-body simulations are a powerful tool for understanding the dynamics of galaxies, particularly if they are coupled to analytical work and/or confronted to observations. Their main assets, compared to observations, are that they give full three-dimensional as well as temporal, information about the evolution of the system.

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Galactic Dynamics and N-Body Simulations: Lectures Held at the Astrophysics School Vi, Organized by the European Astrophysics Doctoral Network (Lecture Notes in Physics) by Georgios Ioannou Contopoulos, N. Spyrou, L. Vlahos (Editor) Hardcover, 417 Pages, Published 1994

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In physics and astronomy, an N-body simulation is a simulation of a dynamical system of particles, usually under the influence of physical forces, such as gravity. N-body simulations are widely used tools in astrophysics, from investigating the dynamics of few-body systems like the Earth-Moon-Sun system to understanding the evolution of the large-scale structure of the universe. In physical

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cosmology, N-body simulations are used to study processes of non-linear structure formation such as galaxy

N-body simulation - Wikipedia

Gravitational N-body simulations, that is numerical solutions of the equations of motions for N particles interacting gravitationally, are widely used tools in astrophysics, with applications from few body or solar system like systems all the way up to galactic and cosmological scales.

N-body simulations (gravitational) - Scholarpedia

2.9 Poisson solvers for N-body codes 122 ... elliptical galaxies 370 • Dynamics of the solar neighborhood 372 4.10 The choice of equilibrium 376 ... D Galactic cannibalism 649 D Orbital decay of the Magellanic Clouds 650 D Dynamical friction on bars 651 D Formation and

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Stellar dynamics - Wikipedia

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Galactic Dynamics | Princeton University Press

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