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## **N-body simulation - Wikipedia**

Stellar dynamics is the branch of astrophysics which describes in a statistical way the collective motions of stars subject to their mutual gravity. The essential difference from celestial mechanics is that each star contributes more or less equally to the total gravitational field, whereas in celestial mechanics the pull of a massive body dominates any satellite orbits. Historically, the methods utilized in stellar dynamics originated from the fields of both classical mechanics and statistical

## **Stellar dynamics - Wikipedia**

Galaxy dynamics and cosmology. Galaxies, and especially dark matter halos, are constituted by a very large number of particles, so that their dynamics can be well described in terms of a mean field. Close encounters are not important and softening is usually employed in these N-body simulations to avoid the unphysical formation of binaries.

## **N-body simulations (gravitational) - Scholarpedia**

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A parallel implementation of an Aarseth N-body integrator on the CRAY T3D. ARI-Preprint No. 68, submitted to Monthly Notes of the Royal Astronomical Society, 1997. Google Scholar

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