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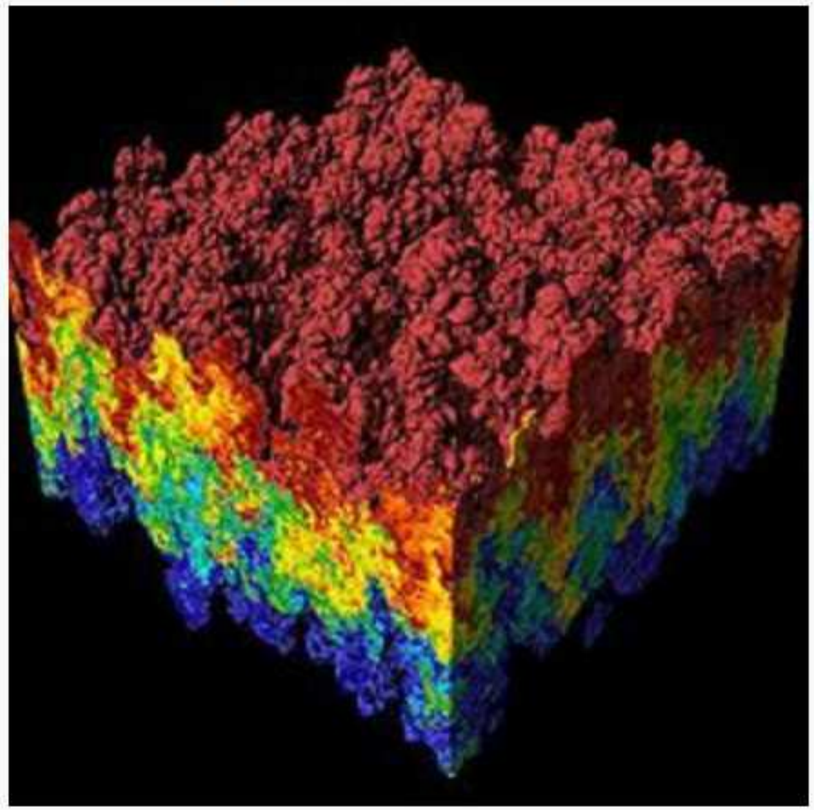
Computational physics

From Wikipedia, the free encyclopedia

This article is about computational science applied in physics. For theories comparing the universe to a computer, see digital physics.

Computational physics is the study and implementation of numerical algorithms to solve problems in physics for which a quantitative theory already exists. It is often regarded as a subdiscipline of theoretical physics but some consider it an intermediate branch between theoretical and experimental physics.

Physicists often have a very precise mathematical theory describing how a system will behave. Unfortunately, it is often the case that solving the theory's

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