Boltzmann’s H-function simulated

Computer simulation of 100 hard disks moving in a 2D box and undergoing elastic collisions. Initial state: positions on a regular lattice, velocities random. Open circles: \( H(t) = \int d^2v f(v, t) \ln f(v, t) \). Full circles: \( H(t) \) when all velocities are inverted after 50 or 100 collisions.

[from Prigogine 1980]