Dynamics of galaxies

Generalities

- Lectures 2x per week
- 4 assignments (30/4; 14/5; 22/5; 11/6; compulsory)
- 2 computer labs (21/5 and 13/6)

- Evaluation:
  - written exam including concepts and 1 or 2 exercises similar to assignments;
  - computer labs count for the final grade (30%)

Tentative schedule 2013-2014

- 24/4: Introduction (Sec.1; collisionless systems); Potential theory (Sec.2.1)
- 30/4: Potential Theory (Sec.2.2)
- 30/4 *(1.30 pm in Library) First set of problems*
- 2/5: Cont. Potential Theory (Sec. 2.3); Orbits (Sec. 3.1)
- 7/5: Orbits of stars (Sec.3.2)
- 9/5: Orbits of stars (Sec.3.3)
- 14/5: Numerical integration of orbits
- 14/5 *(1.30pm in Library) Second set of problems*
- 16/5: Collisionless Boltzmann Equation (Sec. 4.1, 4.2, 4.3)
- 21/5: *First Laboratory: Numerical integration of an orbit*
- 22/5: *Third set of problems*
- 28/5: Cont. CBE (Sec. 4.3, 4.4); Jeans equations (Sec.4.8)
- 30/5: Cont. Jeans Eq. (Sec. 4.9)

Tentative schedule 2013-2014

- 4/6: Collisions (Sec. 8)
- 6/6: Simulation of a merger: problem + lab (IC)
- 11/6: Spiral structure (Sec.6.1)
- 11/6: *Fourth set of problems*
- 13/6: *Second Laboratory: Accretion of a satellite*