



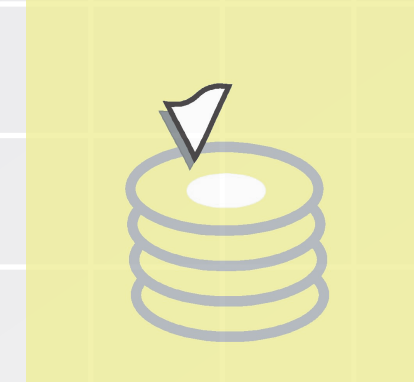
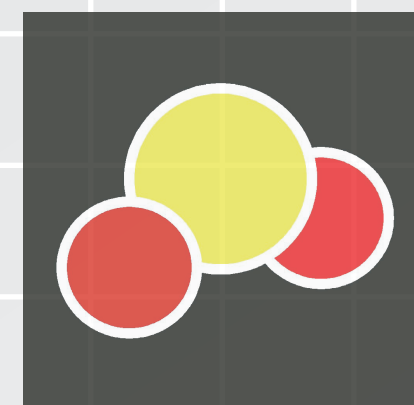
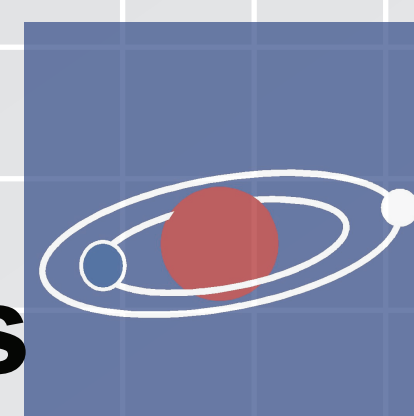
# Center for Computational Sciences University of Tsukuba

<http://www.ccs.tsukuba.ac.jp>



## Objectives

- Advanced research in computational sciences
  - particle physics and astrophysics
  - materials and life sciences
  - global environment and biological sciences
- Research and development of high performance computers and networks for computational sciences
- Research on use of massive computation for computational intelligence and media



## Chronology and major events

**1992** Foundation of the Center for Computational Physics (CCP)

**1996** Completion of CP-PACS, a 0.6Tflops MPP ranked No. 1 on the Top 500 in Nov. 1996

**2002** Completion of HMCS (Heterogeneous Multi-Computer System), an 8.6Tflops coupled CP-PACS/GRAPE-6 system

**2004** Reorganization and expansion of CCP to the Center for Computational Sciences (CCS)

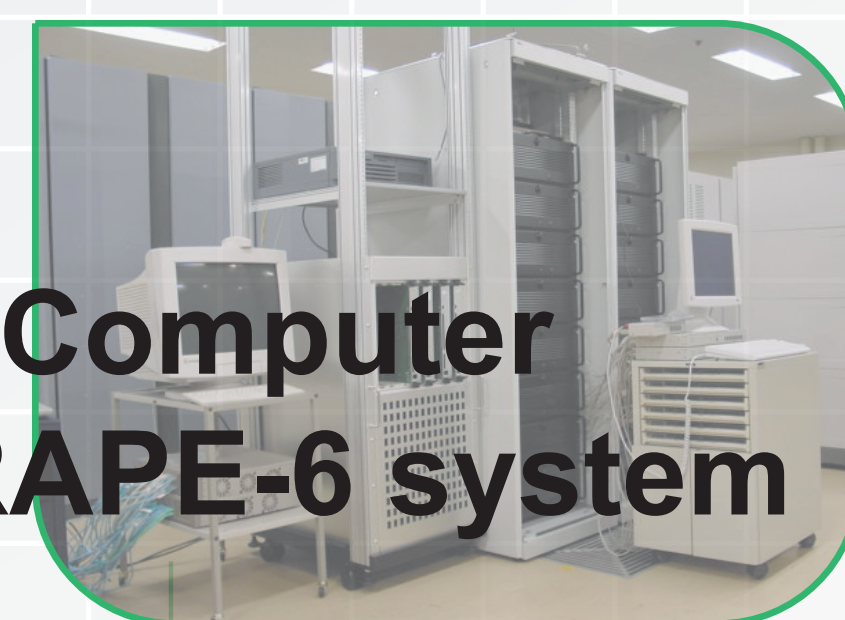
**2006** Two new major computing facilities start operation.

- PACS-CS a general-purpose 14.3Tflops MPP cluster for computational sciences

- FIRST an HMCS-E for astrophysical simulations  
General-purpose 3.5Tflops+gravity 35Tflops



CP-PACS



GRAPE-6 with host cluster



PACS-CS



FIRST Cluster