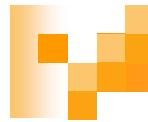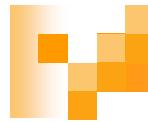# Theory Interest Group

Victoria INTEROP

18-22 May 2010

Objectives

- **SimDB/DM:**
  - under DM WG auspices, finalization of the Simulation DM (part of the SimDB)
- **SimDAP/S3/SimDB:**
  - need a bunch of services to test various features/options on real cases
  - new DB of simulations
    - Space-Time in CINECA (Gheller et al.), CADAC (Wagner), VO-Paris (Starformat, Le Petit, Ooghe et al.)…
    - micro-simulation/modelling PDR-DB (VO-Paris, Le Petit et al.)
  - new modelling/simulation services
    - SVO (astrosismology, Rodrigo Blanco et al.)
    - Vobs.It (stellar evolution, Manzato et al.)
- **Need to pursue/amplify efforts in Sim*/S3 convergence as promised @ the last two INTEROPs (Strasbourg, Garching)**

2+1 Sessions

- **Service demonstration:** Tuesday, **May 18 11.00–12.30** Room: Merino

  - ☐ *Benjamin Ooghe: Starformat* *(implementation of SimDM on non-cosmological 3D simulations)*
  - ☐ *Franck Le Petit: PDRDB (implementation of SimDM on modelling)*
  - ☐ *Carlos Rodrigo Blanco: S3 Services (astrosismology)*
  - ☐ *Miguel Cervino: Summary of some theoretical models already accessible in the VO*
  - ☐ *Patrizia Manzato: Theory in VObs.It (TBC)*

- **Future direction:** Wednesday, **May 19 14.00–15.30** Room: Merino

  - ☐ *Herve Wozniak: Where are we ?*
  - ☐ *Franck Le Petit: Vocabulary*
  - ☐ *Miguel Cervino: Obervations, simulations and models: different ways to study Nature*
  - ☐ *Carlos Rodrigo Blanco: incorporating the 'action' concept in theory protocols and services*
  - ☐ *ALL: Roadmap for the future (and list of actions)*

joint DM/TIG session

- **Data Model Validation, IVOA Reusable Data Types and Theory-Related Topics: Thusday, May 20 11.00–12.30** Room: Merino

  - *Gerard Lemson: SimDB/DM*

  - *Miguel Cervino: First step towards DM for population synthesis*

  - *Igor Chilingarian: Reusable concepts in Characterisation DM v.2: structured data access and functional description of quantities*

- **Splinter/additional meetings**

  - detailed discussions on SimDM

  - detailed discussions on convergence