

**Hydrosim meeting**

**Report of Contributions**

Contribution ID: 0

Type: **not specified**

## **Welcome and scope of the meeting**

*Monday 2 February 2015 09:30 (10 minutes)*

**Presenter:** BORGANI, Stefano

Contribution ID: 1

Type: **not specified**

## **Gadget3 Data Structures and Tree Walk: standard version vs. modifications**

*Monday 2 February 2015 09:40 (25 minutes)*

**Author:** RAGAGNIN, Antinio

**Presenter:** RAGAGNIN, Antonio

**Session Classification:** Code development

Contribution ID: 2

Type: **not specified**

## **An improved hydrodynamical scheme as the core of a new production code**

*Monday 2 February 2015 10:05 (25 minutes)*

**Presenter:** BECK, Alexander

**Session Classification:** Code development

Contribution ID: 3

Type: **not specified**

## **The mass accretion rate of galaxy clusters: a measurable quantity**

*Monday 2 February 2015 10:30 (25 minutes)*

**Presenter:** DE BONI, Cristiano

**Session Classification:** Galaxy Clusters

Contribution ID: 4

Type: **not specified**

## **Pseudo phase space density with Dianoga**

*Monday 2 February 2015 11:25 (25 minutes)*

**Presenter:** MUNARI, Emiliano

**Session Classification:** Galaxy Clusters

Contribution ID: 5

Type: **not specified**

## **Temperature Structure and high-z clusters**

*Monday 2 February 2015 11:50 (25 minutes)*

**Presenter:** RASIA, Elena

**Session Classification:** Galaxy Clusters

Contribution ID: 6

Type: **not specified**

## **SZ scaling relations in Dianoga simulations**

*Monday 2 February 2015 12:15 (25 minutes)*

**Presenter:** FABIAN, Dunjia

**Session Classification:** Galaxy Clusters

Contribution ID: 7

Type: **not specified**

## **Pressure of the hot gas in simulations of galaxy clusters**

*Monday 2 February 2015 12:40 (25 minutes)*

**Presenter:** PLANELLES, Susana

**Session Classification:** Galaxy Clusters

Contribution ID: 8

Type: **not specified**

## **Anisotropic thermal conduction in galaxy clusters**

*Monday 2 February 2015 14:55 (25 minutes)*

**Presenter:** ARTH, Alexander

**Session Classification:** Galaxy Clusters

Contribution ID: 9

Type: **not specified**

## **Music and Music-AGN clusters**

*Monday 2 February 2015 15:20 (25 minutes)*

**Presenter:** YEPES, Gustavo

**Session Classification:** Galaxy Clusters

Contribution ID: **10**

Type: **not specified**

## **The nIFTy comparison project**

*Monday 2 February 2015 15:45 (25 minutes)*

**Presenter:** SEMBOLINI, Federico

**Session Classification:** Galaxy Clusters

Contribution ID: 11

Type: **not specified**

## **Chaotic cold accretion onto SMBHs: the role of rotation**

*Monday 2 February 2015 16:10 (25 minutes)*

**Presenter:** GASPARI, Massimo

**Session Classification:** AGN

Contribution ID: 12

Type: **not specified**

## **Radio-mode AGN activity via kinetic feedback in galaxy clusters**

*Monday 2 February 2015 17:05 (25 minutes)*

**Presenter:** BARAI, Paramita

**Session Classification:** AGN

Contribution ID: 13

Type: **not specified**

## **Connection between AGN and their host galaxies**

*Monday 2 February 2015 17:30 (20 minutes)*

**Presenter:** STEINBORN-BACHMANN, Lisa

**Session Classification:** AGN

Contribution ID: 14

Type: **not specified**

## **New degrees of freedom in the Dark Sector: fifth forces, momentum exchange and dark energy clustering**

*Monday 2 February 2015 17:50 (25 minutes)*

**Presenter:** BALDI, Marco

**Session Classification:** Non-standard models

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TBD

Contribution ID: 15

Type: **not specified**

**TBD**

**Presenter:** MOSCARDINI, Lauro

Contribution ID: 16

Type: **not specified**

## **Magneticum: To big to fail**

*Tuesday 3 February 2015 09:30 (25 minutes)*

**Presenter:** DOLAG, Klaus

**Session Classification:** Cosmological simulations

Contribution ID: 17

Type: **not specified**

## **CLUES toward the formation of the Local Universe**

*Tuesday 3 February 2015 09:55 (25 minutes)*

**Presenter:** SORCE, Jenny

**Session Classification:** Cosmological simulations

Contribution ID: **18**

Type: **not specified**

## **Simulating primordial structures**

*Tuesday 3 February 2015 10:20 (25 minutes)*

**Presenter:** MAIO, Umberto

**Session Classification:** Cosmological simulations

Contribution ID: 19

Type: **not specified**

## **Realistic distributions of HI without running expensive radiative transfer post-processing codes**

*Tuesday 3 February 2015 11:15 (25 minutes)*

**Presenter:** NAVARRO-VILLAESCUSA, Francisco

**Session Classification:** Cosmological simulations

Contribution ID: 20

Type: **not specified**

## **Formation of disk galaxies with MUPPI**

*Tuesday 3 February 2015 11:40 (25 minutes)*

**Presenter:** MONACO, Pierluigi

**Session Classification:** Galaxies

Contribution ID: 21

Type: **not specified**

## **Angular momentum in galactic halos**

*Tuesday 3 February 2015 12:05 (25 minutes)*

**Presenter:** TEKLU, Adelheid

**Session Classification:** Galaxies

Contribution ID: 22

Type: **not specified**

## **Towards next generations of HPC systems**

*Tuesday 3 February 2015 14:30 (50 minutes)*

**Presenter:** GHELLER, Claudio

**Session Classification:** Discussion session: New HPC opportunities

Contribution ID: 23

Type: **not specified**

## **Towards porting the GADGET code to the MIC architecture**

*Tuesday 3 February 2015 15:20 (25 minutes)*

**Presenter:** IAPICHINO, Luigi

**Session Classification:** Discussion session: New HPC opportunities

Contribution ID: 24

Type: **not specified**

## **Gas angular momentum and BH accretion: flash update**

*Wednesday 4 February 2015 09:30 (10 minutes)*

**Presenter:** CARMONA-LOIZA, Juan

**Session Classification:** Discussion Session: Sub-resolution physical modules

Contribution ID: 25

Type: **not specified**

## **Comparison of old and new AGN and hydro schemes in the Dianoga cluster set: flash update**

*Wednesday 4 February 2015 10:00 (15 minutes)*

**Presenter:** RAGONE-FIGUEROA, Cinthia

**Session Classification:** Discussion Session: Sub-resolution physical modules

Contribution ID: 26

Type: **not specified**

## **MUPPI: current development: flash update**

*Wednesday 4 February 2015 09:40 (10 minutes)*

**Presenter:** GOZ, David

**Session Classification:** Discussion Session: Sub-resolution physical modules

Contribution ID: 27

Type: **not specified**

**primo**

Contribution ID: 28

Type: **not specified**

## **secondo**

**Presenter:** VLADILLO, Giovanni

Contribution ID: 29

Type: **not specified**

## **MUPPI: new hydro scheme and AGN**

*Wednesday 4 February 2015 09:50 (10 minutes)*

**Presenter:** MURANTE, Giuseppe

**Session Classification:** Discussion Session: Sub-resolution physical modules

Contribution ID: 30

Type: **not specified**

## **About the impact of baryons on the cluster mass function: Fitting formula and cosmological implications**

*Monday 2 February 2015 14:30 (25 minutes)*

**Presenter:** SARO, Alex

**Session Classification:** Galaxy Clusters

Contribution ID: 31

Type: **not specified**

## **The importance of HPC for high precision, direct N-Body simulations**

*Tuesday 3 February 2015 15:45 (25 minutes)*

**Presenter:** SPERA, Mario

**Session Classification:** Discussion session: New HPC opportunities