

Antonio Ragagnin



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Education and work

October 2014 - now **PhD student of the International Max Planck Research School (IMPRS) program at the Ludwig-Maximilians-Universität München. It's a Excellence Cluster Universe joint collaboration between the Leibniz Supercomputing Centre (LRZ) and the Munich Observatory (USM).**

July 2016 The International HPC Summer School on Challenges in Computational Sciences, Ljubljana

December 2015 TRR33 Winter School, Passo del Tonale (Italy) Theory for Observers & Observations for Theorists

September 2011 - November 2013 **Master degree in Theoretical Physics at Università degli studi di Trieste, 110/110 with honours**

September 2008 - July 2011 **BSc in Physics at Università degli studi di Trieste, 110/110**

July 2007 High school diploma

Publications

2018 (in prep.) *GPU/OpenACC porting of a multi-node Tree/N-Body solver with adaptive timesteps*, **A. Ragagnin**, K. Dolag, M. Petkova, D. Hubber, A. Arth, M. Wagner

2018 *Dependency of halo concentration on mass, redshift and fossilness in Magnetism hydrodynamic simulations*, **A. Ragagnin**, K. Dolag, L. Moscardini, A. Biviano, M. D'Onofrio

2017 *A web portal for hydrodynamical, cosmological simulations*, **A. Ragagnin**, K. Dolag, V. Biffi, M. Cadolle Bel, N. J. Hammer, A. Krukau, M. Petkova, & D. Steinborn *Astronomy and Computing*, 20, 52.

2016 *Exploiting the Space Filling Curve Ordering of Particles in the Neighbour Search of Gadget3*, **A. Ragagnin**, N. Tchipev, M. Bader, K. Dolag, & N. Hammer, 2016, *Parallel Computing: On the Road to Exascale*, Volume 27 of *Advances in Parallel Computing*, p. 411–420. IOS Press, May 2016.

2016 *Extreme Scale-out SuperMUC Phase 2 - lessons learned*, N. Hammer, F. Jamitzky, H. Satzger, M. Allalen, A. Block, A. Karmakar, M. Brehm, R. Bader, L. Iapichino, **A. Ragagnin**, ... *arXiv preprint arXiv:1609.01507*.

2014 *Galactic outflow and diffuse gas properties at $z>1$ using different baryonic feedback models*, P. Barai, P. Monaco, G. Murante, **A. Ragagnin**, & M. Viel, *MNRAS*, 447, 266

Posters, talks and workshops

GPU Technology Conference (GTC, Munich, 2018) **invited** poster "Gadget3 (N-Body gravity + SPH) on GPUs"

EnvironInfo (Munich, 2018) **invited** poster "A web portal for large cosmological simulation data visualization and post processing"

EuroHack (Lugano, 2017) workshop on OpenACC at CSCS

Perspectives of GPU in science (Rome, 2016) poster "A multi node Barnes Hut solver on GPUs for Gadget3"

HydroSim (Trieste, 2016) workshop on hydrodynamic simulations

Astronomical Data Analysis Software and Systems (ADASS, Trieste, 2016) talk "A web interface to federalize the outcome of large, cosmological, hydrodynamic simulations"

EuroHack (Lugano, 2015) workshop on OpenACC at CSCS

International Conference on Parallel Computing (ParCo, 2015) talk "Exploiting the Space Filling Curve Ordering of Particles in the Neighbour Search of Gadget3"

Computational Solar and Astrophysical Modeling (Jülich, 2015) workshop

