

Final meeting project "OCAPIE"  
Preliminary program

Monday January 14, 2019 - Aula A601

08.30 - 08.45 Welcome from DIFI and INFN - Genova

08.45 - 09.25 Giacomo Grasso (ENEA) - The A-BAQUS: an eulogy of laziness in putting order to the chaos of core design

09.25 - 10.05 Guglielmo Lomonaco (UniGe) - Termofluidodynamics and fuel cycle

10.05 - 10.45 Coffee Break

10.45 - 11.25 Marco Palmero (ANN) - Coupled 3D thermal-hydraulic /neutron kinetic Relap5 model for transient analysis of a 1200 MWe nuclear PWR plant

11.25 - 12.05 Manuele Aufiero (Milano Multiphysics) - HPC and Multiphysics simulation

12.05 - 12.45 Stefano Lorenzi (PoliMi) - Reduced order modelling and multiphysics activities at Politecnico di Milano

12.45 - 14.15 Lunch break

14.15 - 14.55 Piero Ravetto (PoliTo) - A revisit of space asymptotic methods in neutron transport

14.55 - 15.35 N. Chentre (INFN Genova) - Using the  $P_N$  method to improve diffusion theory

15.35 - 16.15 Erez Gilad (Ben-Gurion University) - The adjoint problem as a driving force for the optimization of nuclear reactor core design

16.15 - 17.00 Coffee break

17.00 - 17.40 Nicola Abrate (PoliTo) - Neutron multiplication and fissile material distribution in a nuclear reactor

17.40 - 18.20 Marco Ripani (INFN Genova) - An alternative observable to estimate  $k_{\text{eff}}$  in fast ADS

20.00 Social dinner

Tuesday January 15, 2019 - Aula A601

08.30 - 09.10 - Valentina Fabrizio (ENEA Casaccia) - AOSTA international program on minor actinides nuclear data

09.10 - 09.50 - Sandra Dulla (Polito) - Nuclear education in Italy: where are we now and where could we be heading

09.50 - 10.30 - Michail Osipenko (INFN Genova) - Neutron diamond detectors

10.30 - 11.00 Coffee Break

11.00 - 11.40 Gabriele Firpo (ANN) - ManCiNtaP - a Parallel High-Performance Tool For Neutron Activation Analysis in Complex 4D Scenarios

11.40 - 12.20 Mario Carta (ENEA Casaccia) ENEA activities on nuclear research reactors TRIGA RC1 and RSV Tapiro

12.20 - 13.00 Giuseppe Francesco Nallo (PoliTo) - Development of a multi-physics tool for lead-cooled fast reactors

13.00 - 14.10 Lunch break

14.10 - 14.50 Marco Caramello (ANN) Ansaldo Nucleare Numerical Simulations for innovative decay heat removal systems

14.50 - 15.30 Fabio Panza (INFN Genova) - A flexible ADS to study transmutation

15.30 - 16.10 Francesco Di Lecce (Milano Multiphysics) - Serpent & Open-Foam coupled neutronic and thermohydraulics simulation of Alfred core

16.10 - 16.20 Conclusions