IEEE MAGNETICS SOCIETY – ITALY CHAPTER

Frontiers in Magnetism 4

10 – 13 September, 2021, Location: *«Alba sullo Stretto»,* Messina

Program

Friday 10 September

18:00 – Welcome Party

Saturday 11 September

10:00 – 10:30 **Stavros Komineas**, University of Crete, Greece *Traveling skyrmions in chiral antiferromagnets*

10:30 – 11:00 **Riccardo Tomasello**, Politecnico di Bari, Italy - *Role of current driven torques on skyrmion motion in Antiferromagnets*

11:30 – 12:00 **Davi Röhe Rodrigues,** Johannes Gutenberg-University of Mainz, Germany **-** *Exotic spinwave effects in topological magnetic textures*

12:00 – 12:30 **Mario Carpentieri,** Politecnico di Bari, Italy - *Magnetic tunnel junction for logic operations*

12:30 – 13:00 **Paola Tiberto,** INRiM, Italy-*Modelling of heating efficiency in magnetic hyperthermia: effect of non-harmonic driving field*

Lunch

15:00 – Tour of Messina and visit to the *Museum Regionale di Messina*

Sunday 12 September

09:00 – 10:00 **Stefano Bonetti,** , Ca Foscari University of Venice, Italy - *Inertial spin dynamics in ferromagnets*

10:00 – 10:30 **Giovanni Finocchio,** Università di Messina, Italy - *Computing spintronics devices*

10:30 – 11:00 **Vito Puliafito,** Politecnico di Bari, Italy - *Antiferromagnetic THz detectors tunable through electric current*

11:00 – 11:30 **Eleonora Raimondo**, Università di Messina, Italy **-** *Study of the robustness of neural networks based on spintronic neurons*

11:30 – 12:00 **Andrea Grimaldi**, Università di Messina, Italy - *Probabilistic computing solver applied to MAX-SAT instances*

12:00 – 12:30 **Anna Giordano**, Università di Messina, Italy- *Effect of non-ideality of spintronic neurons in accuracy and dark knowledge of deep neural networks*

12:30- 13:00 - **Stefano Chiappini***,* INGV, Italy - *Science for a peaceful and safer world*

Monday 13 September

08:00 – 11:00 - Visit of the University of Messina

11:00 – 13:00 - **Burkard Hillebrands,** Technische Universität Kaiserslautern, Germany - *Magnonic qubit computing*