

Passion for Earth

A new era for geoscience?

Milano, Palazzo di Brera - October 27th, 2022

9.00-9.15 Welcome and structure of the workshop- Angela Bracco (SIF president- Università and INFN-Milano); Gianpaolo Bellini (Università and INFN-Milano)

1st session- Chairperson:.....

9.15- 9.50 Cinzia Farnetani (Université de Paris-Cité) - *Composition and geodynamics of the Earth*

9.50-10.00 Discussion

10.00-10.35 Chris Davies (University of Leeds) - Earth heat budget

10.35- 10.45 Discussion

10.45-11.25 Coffee Break

2nd session- Chairperson:.....

11.25-12.00 Jacques Marteau (Université Claude Bernard-Lyon) - *Muon tomography and volcanos study*

12.00-12.10 Discussion

12.10-12.35 Nicola Rossi (LNGS) - *Precision measurement of the Earth's orbit with solar neutrinos-*

12.35-12.45 Discussion

12.45-14.10 Lunch

3rd session- Chairperson.....

14.10-14.35 Livia Ludhova (Kernphysik, Forschungszentrum Jülich; Aachen University) - *Geoneutrinos from Borexino*

14.35-14.45 Discussion

14.45-15.10 Nanami Kawada (Tohoku University) - *Geoneutrinos from Kamland*

15.10-15.20 Discussion

15.20- 15.50 Fabio Mantovani (Ferrara University) - *Study of the Earth composition with geoneutrinos*

15.50-16.00 Discussion

16.00-16.35 Coffee Break

4th session-Chairperson.....

16.35- 17.10 Joao Coelho (APC Paris) - *Neutrinos tomography*

17.10-17.20 Discussion

17.20- 17.40 Gianni Fiorentini (Ferrara University) *Concluding remarks*

17.40-18.00 General discussion

18.00 End of the meeting