

***PhD program***

***Mathematics, Physics and applications for Engineering***

***Kick-off meeting XXXIII cycle***

***Dipartimento di Matematica e Fisica, Aula G***

***Caserta, 23 gennaio 2018***

**9:15 Welcome**

**9:30 G. Petrillo**

*A minimal model for seismic occurrence*

**9:55 L. P. Paduano**

*TBA*

**10:20 L. D'Amelia**

*Technical and Economic optimization of waste management of organic fraction treatment plants for municipal solid waste and agri-food industries for Biogas and Lactic Acid combined production*

**10:45 Coffee break**

**11:10 R. Mancino**

*Leptogenesis in Type I Seesaw Model at TeV Scale*

**11:35 R. Dell'Aversano**

*Development of eco-friendly materials for the building sector*

**12:00 T. Cacace**

*Control and calibration of acoustophoretic devices by holographic 3D tracking*

**12:25 Lunch break**

**14:00 J. Brocchieri**

*X-Ray fluorescence technique in cultural heritage: application to frescoes and ancient coins*

**14:25 R. Martone**

*Dissolution of a surfactant paste: morphology and dynamics*

**14:50 M. Menale**

*Differential Problems: from  $Q$ -valued functions up to Complex Systems*

**15:15 Coffee break**

**15:35 V. Ricciardi**

*Study of SH-SY5Y cells response to ionizing radiations and to treatment with polyphenol extracts using vibrational spectroscopies*

**16:00 B. Urazbekov**

*Studying the interaction of light nuclei with  $^9\text{Be}$  in the framework of the cluster model*

**16:25 A. Roviello**

*Recent developments on Sard's Theorem and Lusin property*