

## Session Program

Sep 22 - 25, 2019



## **The Time Machine Factory [unspeakable, speakable] on Time Travel -TM2019**

### ***Causality preservation and Chronology violation, CTCs***

Turin

Monday, 23 Sept. \* Aula Magna, Dip. di Scienze della Vita e Biologia dei Sistemi, Via Accademia  
Albertina, 13 \* Tuesday, 24 Sept.- Wednesday, 25 Sept. \* Aula Magna, Palazzo del Rettorato, Via Verdi,  
8 \* @Università degli Studi di Torino

# Mon, September 23

9:00 AM

## Causality preservation and Chronology violation, CTCs: Chair Oldrich Semerak

Session | Location:

09:00 - 09:45 **Gravitational lensing hundred years after the Eddington expedition**

**Speaker**

Prof. Volker Perlick

09:45 - 10:30 **What is the surface of a (dynamical) black hole?**

**Speaker**

Prof. José M.M. Senovilla

10:30 - 11:00 **Coffee break**

11:00 - 11:40 **Black Holes are Time Machines**

**Speaker**

Prof. Francesca Vidotto

11:40 - 12:00 **Probing regular black hole spacetimes with scalar fields**

**Speaker**

Dr Tayebah Tahamtan

12:00 - 12:20 **On Closed Timelike Curves, Cosmic Strings and Conformal Invariance**

**Speaker**

Dr Reinoud Slagter

12:20 - 12:40

**Causal nature and dynamics of trapping horizons in black hole collapse**

**Speaker**

Dr Ilia Musco

12:40 PM

## Tue, September 24

11:45 AM

### Causality preservation and Chronology violation, CTCs: Chair Mariateresa Crosta

Session | Location:

11:45 - 12:15 **Reversible time travel with freedom of choice**

**Speaker**

Dr Amin Baumeler

12:15 - 12:35

**Matrix Product State Simulations of Quantum Fields in Curved 1+1 Spacetime**

**Speaker**

Dr Adam Lewis

12:35 - 12:40 **Changing the interpretation of time**

**Speaker**

Dr Luigi Foschini

12:40 PM