



Venerdì 3 Febbraio 2017, ore 14:30, **Sala Wataghin**

**Francesco Pegoraro**  
(Università di Pisa)

*The world of electromagnetic matter*

We will discuss the properties which make the dynamics of a plasma different from the one of matter at thermodynamical equilibrium, examining apparently different problems in astrophysics, nuclear fusion and relativistic plasmas, sharing the common feature of being dominated by a collective non-linear interaction. At the end, we will discuss future developments in the field of plasmas produced by ultra-intense laser-pulses and dominated by QED processes.