



**SPEAKER:** Francesco Renga (Roma)  
**TITLE:** **Latest News from the MEG Experiment**  
**DATE:** Tue 14/05/2013 11:00  
**PLACE:** Main Auditorium

## ABSTRACT

Within the Standard Model (SM), in spite of neutrino oscillations, the flavor of charged leptons is conserved in very good approximation, and therefore charged Lepton Flavor Violation (cLFV) is expected to be unobservable. On the other hand, most new physics models predict cLFV at a level within the experimental reach, and processes like the mu to e gamma decay became standard probes for physics beyond the SM. The MEG experiment, at the Paul Scherrer Institute (Switzerland), searches for the mu to e gamma decay, down to a Branching Ratio of about  $5 \cdot 10^{-13}$ , exploiting the most intense continuous muon beam in the world and innovative detectors. In this seminar, I will present the most recent results from MEG, and the plan for an upgrade of the experiment, aiming at an improvement of the sensitivity by one order of magnitude within this decade.