



**Venerdì 15 Ottobre
Aula A, ore 14:30**

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Particle physics at the LHC start

I present a concise review of where we stand in particle physics today. After an introduction where a general overview is sketched, I come to the central question of the Higgs: most open problems in particle physics are, directly or indirectly, related to the electroweak symmetry breaking mechanism, which has not been unveiled experimentally so far. The LHC has been designed to clarify this problem. We discuss the physics of the electro-weak breaking sector in the standard model and beyond.