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MEG results and prospects

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The field of Charged Lepton Flavor Violation (CLFV) is very interesting since it permits clear background-free observations of physics beyond the SM, with an extended reach with respect to LHC searches. The MEG experiment has been searching for the Standard-Model suppressed decay $\mu \rightarrow e + \gamma$ with unprecedented sensitivity. Its last result is an upper limit on the $\mu \rightarrow e\gamma$ Branching ratio of 5.7×10^{-13} and has still room for improving it thanks to its final 2013 run. To go further with the sensitivity an upgrade is being prepared in order to improve the experimental apparatus and reach the 10^{-14} range. This will constraint several models proposed to extend the SM. Other experiments are searching for different CLFV processes and a more complete picture of the Flavor Physics will be available in the next years, leading to more detailed knowledge of beyond-SM physics.

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