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Light and weakly coupled dark sectors, and muon physics

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I give an overview of some puzzling results involving muons ($g-2$, muonic hydrogen Lamb shift, semileptonic decays of B-mesons etc). Their theoretical explanations often invoke new physics in form of light and weakly coupled particles, that is possible to test in high intensity experiments. Many new ideas for such tests have been proposed over the recent years, some followed up by concrete experimental efforts. A selection of such ideas/results will be given.

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