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Why do we want to search for a muon EDM ?

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The new $g-2$ measurement suggests new physics in the anomalous magnetic moment of the muon. While this is related to real part of the corresponding Wilson coefficient, the imaginary part gives rise to an electric dipole moment. In this talk, I show that in models with heavy new physics (i.e. realized above the EW scale) one naturally expect a sizable muon EDM within the reach of the planned PSI experiment.

Primary author: CRIVELLIN, Andreas (PSI - Paul Scherrer Institut)

Presenter: CRIVELLIN, Andreas (PSI - Paul Scherrer Institut)

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