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ON POSSIBLE ANOMALOUS MAGNETIC MOMENT OF THE HIGGS BOSON AT A MASS AROUND 125 GeV

We investigate the questions connected with the possible anomalous magnetic moment of the Higgs boson at a mass around 125 GeV discovered at the LHC ATLAS and CMS experiments. We have derived a simple analytical formula for the anomalous magnetic moment of the Higgs boson in a sufficiently strong magnetic field. We have performed numerical estimations on the anomalous magnetic moment of the Higgs boson. The calculations show that with the increasing of the magnetic field strength the anomalous magnetic moment of the Higgs boson may change its sign from “negative” to “positive”.

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