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Slow magnetic monopoles search in NOvA

NOvA far detector is well suited for finding of exotic particles due to its technical opportunities. One kind of these exotic particles are the “slow” magnetic monopoles. Measurement of the expected signals from them has been made on the NovA test bench at JINR. For the future has been proposed to develop the signal simulation of the “slow” mode (the slow monopoles velocity is $\sim 10^{-3}$ times the speed of light) in comparison with the typical signals of the elementary particles. It is assumed that the energy deposition of such monopoles should be sufficiently large. As a whole it promotes searches or it can limit the existence of monopoles in a wide range of parameters, previously unreachable in other experiments (MACRO, SLIM, RICE, IceCube).

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