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Quasi-Elastic Scattering with Neutrinos in MINERvA JYOTSNA OSTA, Fermi National Accelerator Laboratory, KENYI HURTADO, Centro Brasileiro de Pesquisas Fisicas, MINERVA COLLABORATION — MINERvA is a few GeV neutrino-nucleus scattering experiment designed to study low energy neutrino interactions both in support of neutrino oscillation experiments as well as a pure weak probe of the nuclear medium. The experiment uses a fine-grained, high resolution detector. The active region is composed of plastic scintillator with additional targets of helium, carbon, iron, lead and water placed upstream of the active region. We present preliminary results from the double differential cross section analysis that aims to study quasi-elastic scattering of neutrinos in the phase space of the muon transverse and longitudinal momenta. This analysis uses the low energy neutrino dataset recorded from November 2009 to April 2012.

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