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TITLE: New observations at PVLAS

ABSTRACT:

Several upgrades have been made to the PVLAS apparatus in order to check against possible instrumental artifacts mimicking the signal reported in 2006. The new observations, conducted at magnetic field intensities of 2.3 T and 5 T, do not confirm the presence of rotation or ellipticity signals, providing however improved limiting background values. A brief history of the measurements done with the PVLAS apparatus will be presented, along with the most recent findings. Near and longer term plans, including photon-regeneration tests, will also be discussed.