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POLARIZATION PROPERTIES OF METAL CUBE-CORNER RETROREFLECTOR

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The polarization state of the infrared beam reflected from a metallic cube-corner retroreflector (CCR) is analyzed using the Mueller matrix formalism, as it was suggested by Segre and Zanza [1]. In a given paper polarization changes of an electromagnetic beam reflected from CCR are studied in a rather wide range of parameters: complex reflection coefficients of metalic surfaces, beam wavelength, initial polarization state and incidence angle. It is shown that for definite parameters combination polarization changes could be minimized, what is very important for plasma polarimetry on thermonuclear devices.
1. S. E.Segre, V.Zanza, J. Opt. Soc. Am. A 20(9), 1804 (2003).

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