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Aspects of Radar Polarimetry

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Abstract: This contribution is a tutorial introduction to the phenomenological theory of radar polarimetry for the coherent scatter case emphasizing monostatic backscattering and forward scattering (transmission). Characteristic similarities and differences between radar polarimetry and optical polarimetry and the role of linear and antilinear operators (time-reversal) are pointed out and typical polarimetric invariants are identified.

Key Words: radar polarimetry, optical polarimetry, scattering, linear and antilinear operators

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