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Complex analysis on the real sphere, or variations on a Maxwell’s theme. (English)
[zb 1434.32011]

Summary: Maxwell has related spherical polynomials to homogeneous polynomials on the complex quadratic cone. We interpret this duality using an analogue of the Radon transform – the horospherical Cauchy transform on the sphere, which is different from the Minkowski-Funk transform on the sphere.

For the entire collection see [zb 1420.35010].

MSC:
32A45 Hyperfunctions
33C55 Spherical harmonics
43A75 Harmonic analysis on specific compact groups
44A12 Radon transform

Keywords:
spherical polynomials; homogeneous polynomials; Radon transform

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References:

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