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From Complex Fractional Fourier Transform to Complex Fractional Radon Transform

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Abstract: We show that for n-dimensional complex fractional Fourier transform the corresponding complex fractional Radon transform can also be derived, however, it is different from the direct product of two n-dimensional real fractional Radon transforms. The complex fractional Radon transform of two-mode Wigner operator is calculated.

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Key words: complex fractional Fourier transform, Radon transform

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