## 2001 Vol. 36 No. 4 pp. 399-400 DOI:

A New Expression of the Fractional Fourier Transformation

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Abstract: With the help of su(2) algebra technique, a new equivalent form of the fractional Fourier transformation is given. Two examples are illustrated for their physical application in quantum optics.

PACS: 03.65.Fd, 42.50.Dv

Key words: su(2) algebra, the fractional Fourier transformation, squeezed state,

Wigner operator

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