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Quantum Mechanical Fourier-Hankel Representation Transform for an Electron Moving in a Uniform Magnetic Field

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Abstract: We find quantum mechanical Fourier-Hankel representation transform for an electron moving in a uniform magnetic field. The physical meaning of Fourier decomposition states of electron's coordinate eigenstate and the momentum eigenstate are revealed.

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Key words: Fourier-Hankel transform, electron moving, uniform magnetic field

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