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# A new Kontorovich-Lebedev-like transformation

#### Semyon Yakubovich

(Submitted on 6 Jun 2012)

A different application of the familiar integral representation for the modifed Bessel function drives to a new Kontorovich-Lebedev-like integral transformation of a general complex index. Mapping and operational properties, a convolution operator and inversion formula are established. Solvability conditions and explicit solutions of the corresponding class of convolution integral equations are exhibited.

Subjects: Classical Analysis and ODEs (math.CA)

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