

Gamma approximating operators

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ABSTRACT.

By using the gamma distribution we shall define a general linear transform $\Gamma_{\alpha, \beta}^{(a)} f$, $a \in \mathbb{R}$, from which we obtain as special cases the gamma first kind transform. For different value of α , β and a we obtain several gamma type operators studied in literature. We apply the gamma first kind transform to Szász-Mirakjan's operator and we obtain the Jain-Pethe operator.

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