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functions of hypergeometric type on the linear-type lattices, i.e., the solutions of the second order linear difference equation of hypergeometric type on a special kind of lattices: the linear type lattices. In particular, using the integral representation of the solutions we obtain several difference-recurrence relations for such functions. Finally, applications to \$q\$-classical polynomials are given.

Subjects: Classical Analysis and ODEs (math.CA) MSC classes: 33D15, 33D45 Cite as: arXiv:1107.5898 [math.CA] (or arXiv:1107.5898v1 [math.CA] for this version)

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