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A NOTE ON THETA HYPERGEOMETRIC SERIES

Satya Prakash Singh[1], Bindu Prakash Mishra[2], Mohmmad Shahjade[3] and Vijay Yadav[4]

[1]Department of Mathematics,
T.D.P.G. College, Jaunpur-222002 (U.P.), INDIA
E-mail: snsp39@gmail.com

[2]Department of Mathematics,
M.D. College, Parel, Mumbai, INDIA
E-mail: bindu1962@gmail.com

[3] Department of Mathematics,
MANUU Poly. 8th Cross, 1st Stage,
3rd Block, Nagarbhavi, Banglore-72, INDIA
E-mail: mohammadshahjade@gmail.com

[4]Department of Mathematics,
S.P.D.T. College, Andheri(E), Mumbai-400059, INDIA
E-mail: vijaychottu@yahoo.com

Abstract: In this article, making use of Bailey transform and certain known identities, we have established certain transformation formulas for elliptic hypergeometric series

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1. Introduction, Notations and Definitions

In a path-breaking paper, Frankel and Turaev [1] introduced elliptic analogues of very well-poised basic hypergeometric series. Elliptic hypergeometric series and their extensions to theta hypergeometric series has become an increasingly active area of research now these days. So for, many formulae for very well-poised basic hypergeometric series have already been extended to the elliptic setting. Some formulae for multi-basic elliptic hypergeometric series appeared in the work of Warnaar [7]. In this paper, using certain identities we have established transformation