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Mathematics > Number Theory

## An Elliptic Analogue Of Generalized Cotangent Dirichlet Series And Its Transformation Formulae At Some Integer Arguments

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(Submitted on 25 Jul 2011)

B.C. Berndt evaluated special values of the cotangent Dirichlet series. T. Arakawa studied a generalization of the series, or generalized cotangent Dirichlet series, and gave its transformation formulae. In this paper, we establish an elliptic analogue of the generalized cotangent Dirichlet series and give its transformation formulae at some integer arguments. As a corollary, we obtain the transformation formulae of the generalized cotangent Dirichlet series at some integer arguments which are the part of Arakawa's transformation formulae. Those transformation formulae give the special values of the cotangent Dirichlet series evaluated by B.C. Berndt.

Comments:	34pages
Subjects:	Number Theory (math.NT)
MSC classes:	11M41, 11F20
Cite as:	arXiv:1107.4933 [math.NT]
	(or arXiv:1107.4933v1 [math.NT] for this version)

## **Submission history**

From: Tomoya Machide [view email] [v1] Mon, 25 Jul 2011 13:08:01 GMT (27kb)

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