

**Elliptic extension of Gustafson's  $q$ -integral of type  $G_2$** 

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**Abstract:** I will present an evaluation formula for an elliptic beta integral of type  $G_2$ . The integral is expressed by a product of Ruijsenaars' elliptic gamma functions, and the formula includes that of Gustafson's  $q$ -beta integral of type  $G_2$  as a special limiting case as  $p \rightarrow 0$ . The elliptic beta integral of type  $BC_1$  by van Diejen and Spiridonov is effectively used in the proof of the evaluation formula. This is a joint work with M. Noumi.