

ON A CONJECTURE OF KOIKE ON IDENTITIES BETWEEN THOMPSON SERIES AND ROGERS-RAMANUJAN FUNCTIONS

KATHRIN BRINGMANN AND HOLLY SWISHER

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ABSTRACT. This note gives a correction to formula (A.18) of Appendix A.

The correct formula in (A.18) should read

$$u_{54,1}(z)u_{27,2}(z) = T_{54+} + 1 = e^{\frac{-\pi i}{6}} \cdot \frac{\eta(z+1/3)\eta(2z+1/3)\eta(3z+2/3)\eta(6z+2/3)}{\eta(3z)\eta(6z)\eta(9z)\eta(18z)} + e^{\frac{2\pi i}{6}}.$$

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SCHOOL OF MATHEMATICS, UNIVERSITY OF MINNESOTA, MINNEAPOLIS, MN 55455, U.S.A.

E-mail address: `bringman@math.umn.edu`

DEPARTMENT OF MATHEMATICS, OREGON STATE UNIVERSITY, CORVALLIS, OR 97333

E-mail address: `swisher@math.ohio-state.edu`

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