

Publications List

William Hart

THESIS

- [1] *Evaluation of the Dedekind Eta Function*, Ph.D. Thesis, 2004. Macquarie University, Sydney, 144 pp.

JOURNAL PAPERS: REFEREED

- [2] *Modular equations and eta evaluations*, Aust. Math. Soc. Gazette, Vol. 31 No. 1, Mar 2004, pp. 43–47.
[3] *Schläfli modular equations for generalized Weber functions*, 27 pp. (to appear in the Ramanujan Journal).
[4] *A new class of modular equation for Weber functions*, International Journal of Number Theory 2007, vol 3, (1) pp. 141–157.
[5] *Evaluation of the Dedekind Eta Function*, (with Robin Chapman), Canad. Math. Bull. Vol. 49 (1), 2006, pp. 21–35.
[6] *An identity for the Dedekind eta-function involving two independent complex variables*, (with Bruce Berndt), Bull. London Math. Soc. 2007, vol 39 (2), pp. 345–347.

PREPRINTS

- [7] *Eta evaluations from modular equations for Weber functions*, (2006), 18 pp.
[8] *A new class of theta function identities in two variables*, (with Robin Chapman and Pee Choon Toh), (2006), 6 pp.

OTHER PAPERS: IN PREPARATION

- [9] *An FFT-based splitting technique for polynomial multiplication*, (2007)
[10] *A refinement of Mulders' polynomial short division algorithm*, (2007)
[11] *A criterion for the non-existence of rational points on curves of genus 1*, (2007)

OTHER PAPERS: UNPUBLISHED EXPOSITIONS

- [12] *Notes on the GL_2 Main Conjecture a la Coates, Fukaya, Kato, Sujatha and Venjakob*, (2004), 15 pp.