



**COXETER GROUP INVARIANT FOURIER POLYNOMIALS  
OF  $I_2(p)$ ,  $H_3$  AND  $D_6$**

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**Abstract**

We calculate the Coxeter group invariant Fourier polynomials of  $I_2(p)$ ,  $H_3$  and  $D_6$  according to the method of [B. Dubrovin and Y. Zhang, Extended affine Weyl groups and Frobenius manifolds, *Compositio Math.* 111(2) (1998), 167-219]; [N. Bourbaki, *Lie Groups and Lie Algebras*, Chapters 4-6, Springer-Verlag, Berlin, Heidelberg, 2008].

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