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Scott Ahlgren* (sahlgren@illinois.edu), Department of Mathematics, University of Illinois, 1409 W. Green St, Urbana, IL 61822, and **Nickolas Andersen** and **Detchat Samart**. *A polyharmonic Maass form of depth $3/2$ for $SL_2(\mathbb{Z})$.*

Duke, Imamoglu, and Tóth constructed a polyharmonic Maass form whose Fourier coefficients encode real quadratic class numbers. A more general construction of such forms was given by Bruinier, Funke, and Imamoglu. Here we give a direct construction of such a form for the full modular group and study the properties of its coefficients. (Received July 14, 2017)