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Geoffrey Mason* (gem@ucsc.edu), Department of Mathematics, UC Santa Cruz, Santa Cruz, CA 95064. *Hypergeometric approach to the unbounded denominator conjecture.*

The question of whether modular forms on a noncongruence subgroup have unbounded denominators (UBD) goes back to Atkin and Swinnerton-Dyer. We outline an approach to this problem that is successful in low dimensions. It is based on the theory of vector-valued modular forms and is intimately related to Riemann-Hilbert type problems about Fuchsian differential equations. (Received July 17, 2017)