1125-11-1518 **Daniel Schultz***, dps23@psu.edu, and **Timothy Huber** and **Donxi Ye**. *Ramanujan-Sato Series for $\frac{1}{\pi}$ Arising from the Monster Group.*

The Monster group is the largest sporadic simple group. Due to the settling of the Moonshine Conjecture by Borcherds, we now know that the McKay–Thompson series T_g of an element of the Monster group is the Hauptmodule of some subgroup of $\mathrm{SL}_2(\mathbb{R})$. I will present the theory of series for $\frac{1}{\pi}$ associated to these Hauptmoduln, which generalize Ramanujan's and the Chudnovsky brothers' famous series for $\frac{1}{\pi}$. This is joint work with Tim Huber of The University of Texas-Pan American and Dong Xi Ye of The University of Wisconsin–Madison. (Received September 17, 2016)