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Quan T Tran* (qtran@ou.edu), 3831 NW 10, Oklahoma City, OK 73107. *Snowflake Groups with Super-Exponential 2-Dimensional Dehn Functions.*

In their paper *Super-Exponential 2-Dimensional Dehn Functions*, J. Barnard, N. Brady and P. Dani produced groups of type \mathcal{F}_3 with 2-dimensional Dehn functions $\delta^2(x) = \exp^m(x)$, where m is a natural number. And N. Brady, M. Bridson, M. Forester and K. Shankar produced in their paper *Snowflake Groups, Perron-Frobenius Eigenvalues, and Isoperimetric Spectra* groups of type \mathcal{F}_{n+1} whose n -dimensional Dehn functions are $\delta^n(x) = x^s$ for any $s \in \mathbb{Q} \cap [2, \infty)$. We will combine these two ideas to produce groups of type \mathcal{F}_3 whose 2-dimensional Dehn functions are $\delta^2(x) = \exp^m(x^s)$. (Received September 20, 2010)