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J. Haglund* (jhaglund@math.upenn.edu), 209 S. 33rd. St., Philadelphia, PA 19104-6395.

Formulas for the Hilbert Series of Diagonal Harmonics. Preliminary report.

We give a survey of various known and conjectured formulas for the Hilbert Series of Diagonal Harmonics. We show how each of these formulas has a family of associated conjectures attached to them. Most of these conjectures can be expressed in terms of generalized parking functions. (Received January 16, 2012)