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Andrew T. Wilson* (atwilson@ucsd.edu). *Parking functions with undesirable spaces*. Preliminary report.

A recent conjecture of Haglund relates an operator from the theory of diagonal harmonics to a new class of decorated parking functions. These decorated parking functions can be described in terms of a parking lot where some spaces are undesirable. We will explore the combinatorics of these objects as well as their relationship to recent extensions of Mahonian statistics to ordered set partitions. (Received September 08, 2014)