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Extending the parking space

A length n sequence (a_1, \dots, a_n) of positive integers is called a *parking function of size n* if its nondecreasing rearrangement $(b_1 \leq \dots \leq b_n)$ satisfies $b_i \leq i$ for all i . We prove that the action of the symmetric group S_n on the vector space spanned by size n parking functions extends to an action of S_{n+1} . We construct this extended module explicitly as a graded S_{n+1} representation and describe its restricted graded Frobenius character. This is joint with Andrew Berget at the University of Washington.