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Christopher Ryba* (ryba@math.berkeley.edu). *Littlewood Complexes for Symmetric Groups.*

Certain categories of representations of GL_∞ and S_∞ have been studied by Sam and Snowden. They admit “specialisation” functors to their finite counterparts. We give a resolution of irreducible representations of S_n by representations restricted from GL_n (which contains S_n as permutation matrices), which yields injective resolutions in $Rep(S_\infty)$. This construction categorifies a family of symmetric functions studied by Orellana and Zabrocki as well as Assaf and Speyer. (Received August 18, 2020)