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Toward a Schurification of Schröder path formulas.

The Shuffle theorem of Carlsson and Mellit, states that $\nabla(e_n)$ is given by Parking function formulas. Schröder paths are a particular case of Parking functions. These formulas are symmetric in the variables q and t . More precisely, for all n , $\nabla(e_n)$ can be seen as a $GL_2 \times \mathbb{S}_n$ -module. In this talk we will put forth a partial formula for the irreducible bicharacters of these modules. Namely we will write subsets of the Schröder paths formulas as products of Schur functions in the variables q and t and the usual Schur functions in the variables $X = \{x_1, x_2, \dots\}$.