Kronecker Product of Schur Functions of Two-Part Partitions

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Abstract
The main aim of this thesis is to correct certain omissions in Remmel & Whitehead’s paper “On the Kronecker Product of Schur Functions of Two Row Shapes”\(^1\). We begin with a discussion of the basic representation theory and combinatorics necessary to understand and define Schur functions and the Kronecker product. We then give a brief summary of Remmel & Whitehead’s argument, ending with a presentation of the corrected theorem for the Kronecker product of Schur functions indexed by partitions of at most two parts.