

1167-16-116

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Transitioning between the polytabloid and web bases for the Specht modules.

The Specht modules admit a well-known polytabloid basis parametrized by standard Young tableaux. Alternatively, \mathfrak{sl}_2 -tensor invariants can also be described by webs, or Temperley-Lieb diagrams, which give another basis of these modules associated to the two-row partition $\lambda = (n, n)$. Russell-Tymoczko (2020) showed that the transitioning matrix between these two bases is unitriangular. We proved their further conjecture that the entries in the upper-triangular portion of his matrix are positive. We also give some preliminary results about \mathfrak{sl}_3 -spiders which correspond to three-row partitions. This is joint work with M. S. Im. (Received March 01, 2021)