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Jieru Zhu* (jieruzhu699@gmail.com) and **Mee Seong Im**. *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 this 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 January 18, 2021)