

1154-05-1343 **Ali K Uncu*** (akuncu@risc.jku.at). *The method of weighted words re-revisited*. Preliminary report.

Alladi and Gordon introduced the method of weighted words in 1993 to prove a refinement and generalization of Schur's partition identity. Together with Andrews, they later used it to refine Capparelli's and Goellnitz' identities. In 2017, Dousse published the article "The method of weighted words revisited", where she explained her variant on this method. In a series of papers, she demonstrated the strength and applicability of her straightforward method. Recently, joint with Jakob Ablinger, the author automated many steps of the weighted words approach of Dousse using symbolic computation.

In this talk, we are planning to introduce the method, introduce the weighted words portion of the soon-to-be-public Mathematica package `qFunctions`, and demonstrate this implementation while we prove some partition identities. (Received September 15, 2019)