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**BEN SEAMONE**, Université de Montréal

*Bounding a graph's weight choosability number*

The "1-2-3 conjecture" states that any connected graph on at least 3 vertices may be properly vertex coloured by assigning each edge a label from  $\{1, 2, 3\}$  and colouring a vertex with the sum of the weights from its incident edges. One may generalize this by weighting edges from independently assigned lists. I will present the first known upper bound (which is graph dependent) for the size of lists required to properly colour vertices in this way; the result is obtained via Alon's Combinatorial Nullstellensatz. This work was completed as part of my PhD thesis under the supervision of Brett Stevens.