

1145-11-1731 **Nicolas Allen Smoot*** (nicolas.smoot@risc.jku.at), Julius Raab Strasse 10/5/2523, 4040
Linz, Austria. *A Family of Congruences for Rogers–Ramanujan Subpartitions*. Preliminary report.

In 2015 Choi, Kim, and Lovejoy studied a weighted partition function, $A_1(n)$, which counted subpartitions with a structure related to the Rogers–Ramanujan identities. They conjectured the existence of an infinite class of congruences for $A_1(n)$, modulo powers of 5. We give an explicit form of this conjecture, and prove it for all powers of 5. (Received September 24, 2018)