

1135-11-1965 **Peter Paule*** (peter.paule@risc.jku.at), Research Inst for Symbolic Computation (RISC),
Johannes Kepler University Linz, A-4040 Linz, Austria, and **Cristian-Silviu Radu**. *The
Rogers-Ramanujan Functions and Computer Algebra.*

Combinatorially, the first Rogers-Ramanujan function can be defined as the generating function of the number of partitions of n in which the differences between parts are at least two. The second Rogers-Ramanujan function is defined similarly. The talk discusses various aspects of these functions under the light of recent computer algebra developments. Topics include modular transformations, the Rogers-Ramanujan continued fraction and its connection to Klein's icosahedral equation. (Received September 25, 2017)