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*New Computational Bounds for Ramsey Numbers  $R(3, K_k - e)$*

Using computational techniques, we prove that the Ramsey number  $R(3, K_{10} - e)$  is equal to 37 and we derive bounds for the next 5 cases. Let  $e(3, K_k - e, n)$  denote the minimum number of edges in any triangle-free graph on  $n$  vertices, which in the complement does not contain  $K_k - e$ . The new results on  $R(3, K_k - e)$  were obtained by completing the computation of all values of  $e(3, K_k - e, n)$  for  $k \leq 10$ , establishing new lower bounds on  $e(3, K_k - e, n)$  for  $11 \leq k \leq 15$  (for the previously open cases), and by other computations.

This is joint work with Jan Goedgebeur from Ghent University, Belgium.