Dan Romik
Publication list

Date last updated: October 11, 2021

Downloadable versions of the publications listed below can be found on my publications page [https://www.math.ucdavis.edu/~romik/publications/].

Book


Available for download at [https://www.math.ucdavis.edu/~romik/book/].

Journal publications


34. On the number of $n$-dimensional representations of $SU(3)$, the Bernoulli numbers, and the Witten zeta function. Acta Arithmetica 180 (2017), 111–159.
33. Bijective combinatorial proof of the commutation of transfer matrices in the dense \( O(1) \) loop model (joint with Ron Peled). Séminaire Lotharingien de Combinatoire 73 (2015), B73b.


10. Some formulas for the central trinomial and Motzkin numbers. *J. of Integer Sequences* 6 (2003), article 03.2.3.


Publications in conference proceedings


Patents


Software

I have developed and self-published the following mathematical software applications and packages, which are available to download from my software web page ([https://www.math.ucdavis.edu/~romik/software/](https://www.math.ucdavis.edu/~romik/software/)):

- Mac-based mathematical simulation apps:
  - MacSort, 2008

- Research software packages:
  - OrientedSwaps, Mathematica package, 2019. Developed jointly with Elia Bisi, Fabio Cunden and Shane Gibbons.
  - SofaBounds, Unix software application, 2017. Developed jointly with Yoav Kallus.
  - SU3-ASYM, Mathematica package, 2015.
  - The combinatorics of fully packed loops and Razumov-Stroganov conjectures, Mathematica package and slide presentation, 2014.
