Graz University of Technology

Institut für Diskrete Mathematik

Combinatorics Seminar

Friday 8th October 14:15

Online meeting (Webex)

Obstructions for graphs of linear rank-width at most k

Sang-il Oum

(IBS/KAIST)

Oum (2005) showed that graphs of bounded rank-width are well-quasi-ordered under taking pivot-minors, which implies that the list of excluded pivot-minors for the class of graphs of linear rank-width at most k is finite. However, its proof is non-constructive and provides no algorithm to construct the list. We prove that every excluded pivot-minor for the class of graphs of linear rank-width at most k has at most $2^{2^{O(k^2)}}$ vertices. This is joint work with Mamadou M. Kanté, Eun Jung Kim, and O-joung Kwon.

Meeting link:

https://tugraz.webex.com/tugraz/j.php?MTID=ma70275cd258e7748417214793956c7bf

Meeting number: 188 980 7021

Password: ahMZ84fJYQ2

Joshua Erde, Mihyun Kang