

Institut für Diskrete Mathematik

Vortrag im Seminar für Kombinatorik und Optimierung

Dienstag 19.6.2018, 14:15

Seminarraum AE06, Steyrergasse 30, Erdgeschoss

The genus of the Erdős-Rényi random graph and the fragile genus property

CHRIS DOWDEN

(Technische Universität Graz)

We investigate the genus of the Erdős-Rényi random graph $G(n, m)$, providing a thorough description of how this relates to the function $m = m(n)$, and finding that there is different behaviour depending on which region m falls into.

We then also show that the genus of a fixed graph can increase dramatically if a small number of random edges are added - we thus call this the “fragile genus” property.

This is joint work with Mihyun Kang and Michael Krivelevich.

Mihyun Kang