

Virtually fibering random right-angled Coxeter groups

Roman Glebov*

roman.1.glebov@gmail.com

In this talk, we show that the Right-Angled Coxeter group $C = C(G)$ associated to a random graph $G \sim \mathcal{G}(n, p)$ with $\frac{\log n + \log \log n + \omega(1)}{n} \leq p < 1 - \omega(n^{-2})$ virtually algebraically fibers. This means that C has a finite index subgroup C' and a finitely generated normal subgroup $N \subset C'$ such that $C'/N \cong \mathbb{Z}$. We also obtain the corresponding hitting time statements. The result builds upon the work of Jankiewicz, Norin, and Wise.

This is joint work with Ilan Karpas and Gonzalo Fiz Pontiveros.

*School of Computer Science and Engineering, Hebrew University, Jerusalem 9190401, ISRAEL