Combinatorics
Seminar

Subcubic triangle-free graphs have fractional chromatic number at most 14/5

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Abstract: Every subcubic triangle-free graph on n vertices contains an independent set of size at least $5n/14$ (Staton'79). We strengthen this result by showing that all such graphs have fractional chromatic number at most 14/5, thus confirming a conjecture by Heckman and Thomas.

This is joint work with J.-S. Sereni and J. Volec.

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Mathematics and Science Center: W303

Mathematics and Computer Science
Emory University