

COMBINATORICS
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Ramsey theorem for cycles revisited

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Abstract: In the talk I briefly describe some ideas behind recent results concerning the following conjecture of Richard Schelp:

Let $n \geq 4$ and let G be a graph of order n with $\delta(G) > 3n/4$. If $E(G) = E(R) \cup E(B)$ is an 2-edge colouring of G , then for each $\ell \in [4, \lceil n/2 \rceil]$ we have either $C_\ell \subseteq R$ or $C_\ell \subseteq B$.

This is a joint work with Fabricio Benevides, Alex Scott, Jozef Skokan, and Matthew White.

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MATHEMATICS AND COMPUTER SCIENCE
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