

## **Partition regularity in the rationals**

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A system of linear equations is *partition regular* if, whenever  $\mathbb{N}$  is finitely coloured, there is a monochromatic solution. We could similarly ask about partition regularity over  $\mathbb{Z}$  or  $\mathbb{Q}$ , and for finite systems these notions coincide. What happens in the infinite case?