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On the relationship between graph colouring invariants and their fractional counterparts

In this talk we will survey the relationship between some graph colouring invariants (for instance the chromatic index, the chromatic number and the total chromatic number) and their fractional counterparts. In particular, we will show how results from polyhedral combinatorics enable one to prove that, in some instances, the gap between a given graph colouring invariant and its fractional counterpart is small.