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Equality in the Domination Chain in Planar Triangulations

Equality in the domination chain,

$$ir(G) \leq \gamma(G) \leq i(G) \leq \alpha(G) \leq \Gamma(G) \leq IR(G),$$

has been extensively studied. In this talk we discuss recent results. In particular, a characterisation of planar triangulations where all minimal dominating sets have the same cardinality and a characterisation of planar triangulations where all six domination parameters are the same will be given. This is joint work with Christopher van Bommel.