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Factor of i.i.d. processes and Cayley diagrams

Let G be a Cayley graph for a countable group Γ. This talk will look at when Γ-f.i.i.d. solutions (or approximate solutions) to local labelling problems on G lift to $aut(G)$-f.i.i.d. solutions. In particular we'll show that this lifting is always possible when G admits an $aut(G)$-f.i.i.d. (approximate) Cayley diagram and establish some results on which graphs admit such diagrams.