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Descriptive Chromatic Numbers of Locally Finite and Everywhere Two Ended Graphs

We construct Borel graphs which settle or advance several questions in descriptive graph combinatorics. The theme of these questions is "What can the discrete structure of a Borel graph tell us about its descriptive combinatorics?". Specific instances we may discuss include "What bounds does the (discrete) chromatic number place on the Baire measurable chromatic number?", the analogous question in the Borel probability measure setting, and "What does the Cayley graph of a group tell us about its Bernoulli shift?".