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How Expressive is Digraph Placement?

Digraph Placement is a normal play ruleset which generalizes many long studied normal play games. It is also the only placement game which is known to be universal, that is for all games X , there is a Digraph Placement game G such that $G = X$. We will discuss the proof of this universality and explore questions of the form: what is the smallest class of Digraph Placement game needed to express all games? In particular, we will discuss a conjecture by the author that for all non-negative integers d , there exists number $f(d)$ such that for all Digraph Placement games G with out-degree at most d , the temperature of G is at most $f(d)$. Note that if the claim is true for $d = 6$, this would imply Domineering has bounded temperature, verifying a weak version of a longstanding conjecture of Berlekamp. This is joint work with Neil McKay and Alfie Davies.