

## The classification of the oriented regular representations

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Broadly speaking, this talk is divided into three parts related to graph representations of groups. First we aim to give a complete answer to a 1980 question of László Babai: “Which [finite] groups admit an oriented graph as a DRR?” That is, which finite groups admit an oriented regular representation (ORR)? In the second part of this talk, we address another widely open question of Babai: asymptotic enumeration of Cayley (di)graphs. In the last part of this talk, we address a very recent question of Watkins and Tucker on Frobenius regular representations of finite groups.

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