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Disconnected reductive groups

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A disconnected reductive group is a linear algebraic group whose connected component of the identity is a reductive group. Even those, only interested in connected reductive groups, encounter disconnected ones as various subgroups, e.g., centralisers, normalisers, intersections.

In this talk I will spell out how to classify disconnected reductive groups up to an isomorphism. Later on, I will examine their representations and several challenges that they render. The talk is based on joint work with Dylan Johnston and Diego Martin Duro.

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