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Simon Thomas* (sthomas@math.rutgers.edu), Mathematics Department, Rutgers University, 110 Frelinghuysen Road, Piscataway, NJ 08854-8019. *The descriptive set theory of unitary group representations*. Preliminary report.

For each countable group G , let \approx_G be the unitary equivalence relation on the space of irreducible unitary representations of G . In this talk, I will consider the question of whether there exist two countable groups G, H such that:

- (i) G, H are not abelian-by-finite; and
- (ii) \approx_G, \approx_H are not Borel bireducible.

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