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Reconstructing directed graphs

We show how to reconstruct a finite directed graph E from its Toeplitz algebra, its gauge action, and the canonical finite-dimensional abelian subalgebra generated by the vertex projections. If E has no sinks, then we can recover E from its Toeplitz algebra and the generalised gauge action that has, for each vertex, an independent copy of the circle acting on the generators corresponding to edges emanating from that vertex. We also show by example that it is not possible to recover E from its Toeplitz algebra and the gauge action alone. This is joint work with Nathan Brownlowe, David Robertson and Aidan Sims.