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Cyclic Groups and R -cyclic operators

R -cyclic operators are a generalization of R -diagonal operators which are in turn a generalization of Haar unitary operators and circular operators.

In this talk I will present a new connection between cyclic groups and R -cyclic operators. The main result is that the transpose of an R -cyclic operator can be naturally decomposed, with respect to the cyclic group, into freely independent pieces. This is joint work with Octavio Arizmendi (Guanajuato).