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Title: Endomorphisms of totally disconnected, locally compact groups

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Totally disconnected, locally compact groups are found in many different contexts: as Lie groups over fields of p -adic numbers; as automorphism groups of locally finite graphs; and all profinite groups are compact and totally disconnected. Understanding such groups in general is also an important part of the theory of locally compact groups.

The talk describes an approach to studying these groups through their endomorphisms. Although totally disconnected, locally compact groups do not have a Lie algebra in general, invariants associated with each endomorphism have similarities with the eigenvalues and canonical form associated with a linear transformation