

Session 46 (Infinite Groups and Related Topics),
Title: "A Survey of Topological Full Groups, aka
Ample Groups"

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Given a group G acting by homeomorphisms on the Cantor set X , we can construct a larger group by including all homeomorphisms of X that locally act as elements of G . This new group is called the topological full group of the dynamical system (X, G) . The algebraic properties of topological full groups often reflect the dynamical properties of the underlying system. In this talk, we will survey known algebraic properties of topological full groups associated with actions of the integers and discuss a few open problems in the field.

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