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Equivariant K-theory, groupoids and proper actions

Equivariant K-theory for actions of Lie groupoids can be defined using a subset of equivariant bundles. For a Bredon-compatible Lie groupoid, this defines a periodic cohomology theory on the category of finite equivariant CW-complexes. A particular instance is equivariant K-theory for proper actions of non-compact Lie groups. Some important examples and an analogue of the completion theorem of Atiyah and Segal will be provided.