

## **Reflecting cones on boolean algebras**

**David Milovich**

(University of Wisconsin, Madison)

Each base of a compact group contains a base such that each nonempty open subset of the group has only finitely supersets in the smaller base. This and similar results can be proven using elementary submodel techniques, with the key lemma being that cones of free boolean algebras reflect to elementary submodels of the universe in a nice manner. Only partially solved is the problem of characterizing which other boolean algebras have this reflection property.