

ULTRAFILTERS AND SET THEORY

ANDREAS BLASS

I plan to survey several parts of the interface between set theory and ultrafilters. The interface is much too large for a full survey, even after excluding the topics that other invited speakers will cover. So I shall select a few topics that I find particularly interesting. These include:

- Connections with (weak forms of) the axiom of choice,
- Ultrafilters with special combinatorial properties,
- Connections with cardinal characteristics of the continuum,
- Connections with forcing,
- Connections with games and determinacy.

DEPARTMENT OF MATHEMATICS, UNIVERSITY OF MICHIGAN, ANN ARBOR,
MICHIGAN, U.S.A.

E-mail address: `ablass@umich.edu`