## SHARP AND FUZZY OBSERVABLES ON EFFECT ALGEBRAS

## PULMANNOVÁ, S.

ABSTRACT. Observables on effect algebras and their fuzzy versions obtained by means of confidence measures (Markov kernels) are studied. It is shown on effect algebras with E-property that, given an observable and a confidence measure, there exists a fuzzy version of the observable. Ordering of observables according to their fuzzy properties is introduced, and some minimality conditions with respect to this ordering are found. Statistical maps and applications of some results of classical theory of experiments are considered.

## References

[1] Pulmannová, S., Vinceková, E., Sharp and fuzzy observables on effect algebras, Preprint MU SAV 2006.

MATHEMATICAL INSTITUTE, SLOVAK ACADEMY OF SCIENCES, ŠTEFÁNIKOVA 49, 814 73 BRATISLAVA, SLOVAKIA, E-MAIL: PULMANN@MAT.SAVBA.SK