

How to recognize a multiplicative or an almost multiplicative functional?

Krzysztof Jarosz

Department of Mathematics and Statistics

Southern Illinois University at Edwardsville, IL 62026 USA

kjarosz@siue.edu

Abstract. We discuss the problem of how to recognize a multiplicative or an almost multiplicative functional from its behavior on a small subset of the algebra, by its local behavior, or by other properties. We provide a brief history of the problem including the classical results going back for a century as well as the most recent developments and a list of open problems.