

NUMERICAL RANGE, RESOLVENTS AND BOUNDED SEMIGROUPS

Jaroslav Zemánek

Institute of Mathematics, Polish Academy of Sciences

P.O. Box 21, 00-956 Warsaw, Poland

e-mail: zemanek@impan.gov.pl

Abstract

We intend to discuss various characterizations of the boundedness of operator powers and their Cesaro means, in terms of the resolvent and numerical range. A number of open questions will be mentioned.