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## Linearization of $C^*$ -actions and related problems

MARIUSZ KORAS

Department of Mathematics  
Warsaw University  
Ul. Banacha 2  
02-097 Warsaw  
POLAND

koras@mimuw.edu.pl

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This a survey talk about *common work with Peter Russell* on the linearization conjecture. I will present a method of the proof; also I will describe some results on affine surfaces of negative Kodaira dimension which were obtained afterwards.