



Analysis Seminar

Distance of the set of commutators to the identity

By

Aurelian Gheondea

Abstract: According to a classical theorem of Wintner and Wielandt, the equation $[A,B]=I$ does not have any solution A and B in the algebra of linear bounded operators $B(H)$ on a Hilbert space H , where $[A,B]=AB-BA$ denotes the commutator of A and B , and I denotes the identity operator on H . We present a survey of known results for the estimation of the distance from the set of commutators to the identity and some open questions. Senior and graduate students are welcome.

Date: Monday, October 21, 2019

Time: 14:00-15:00

Place: SA – Z18

Tea and cookies will be served after the seminar.