University of Crete
Departments of Mathematics and Applied Mathematics

Analysis Seminar

1:15pm, Tuesday, 28 March, 2017
Room A-303

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Invariant sets for operators

The existence of invariant (closed) sets for linear operators is established for various classes of operators. Operator theorists are interested to such sets because of the still open invariant subspace (and subset) problem on Hilbert spaces. For instance, we show that a Hilbert space operator of the form non-unitary isometry plus compact is far from being weakly supercyclic; therefore every closed projective orbit is invariant. This is in sharp contrast to the case: unitary plus compact.