Operator-valued Mappings Gökhan Göğüş Sabancı University 06/05/2011

We consider different orders on the class S of bounded self-adjoint operators on a Hilbert space. Any such order can be used to define a topology on S. One of these orders is the spectral order introduced by M.P. Olson in 1971. He proved that the class S forms a lattice (which is not a vector lattice) together with the spectral order. In this talk we will review some known facts related to spectral order, discuss various class of functions taking values in S and talk about possible directions on the subject.