Speaker: Anton Schep (USC)

Title: Cone isomorphisms and almost surjective operators

Abstract: Let E be a Banach lattice and F a Banach space. We will introduce the notion of almost surjectivity and and show that a bounded linear operator $T : E \to F$ is an isomorphism on the positive cone of E if and only if T^* is almost surjective. A dual version of this theorem holds also. A bounded linear operator $T : F \to E$ is almost surjective if and only if T^* is an isomorphism on the positive cone of F^*. Special attention will be given to positive operators between L_p-spaces.