

**Invariant complementation and
a separation property for a locally compact group**

Let G be a locally compact group and $VN(G)$ denote the von Neumann algebra generated by the left regular representation of G . In this talk, I shall describe an invariant complementation property for an invariant W^* -subalgebra of $VN(G)$ and its relation with a separation for closed subgroups of G by continuous positive definite functions.