

MA-620 VON NEUMANN ALGEBRAS

The weak - and strong topologies, Elementary properties of Von Neumann Algebras, Commutant and bicommutant, the density theorems, comparison of projections, introduction to the classification of factors, Normal states and the predual, Gelfand-Naimark-Siegel construction (GNS-constructions).

RECOMMENDED BOOKS:

1. Dixmier, J., Von Neumann Algebras, North Holland, 1977.
2. Dixmier, J., C*-Algebras, North Holland, 1977.
3. Schwartz, J., W*-Algebras, Gordon and Breach, New York, 1967.
4. Sakai, S., C*-Algebras and W*-Algebras, Springer-Verlag, 1971.