

SOME VARIANTS OF WEBER'S THEOREM

By SALAH MECHELI*

King Saud University College of Science, Department of Mathematics,
P.O. Box 2455, Riyadh 11451, Saudi Arabia

[Received 29 May 2002. Read 30 November 2002. Published November 2004.]

ABSTRACT

Weber's theorem says that if $A : H \rightarrow H$ is bounded and linear on a separable Hilbert space, then any operator that is compact, commutes with A and lies in the weak closure of the range of the inner derivation induced by A must also be quasinilpotent. In this note we consider related problems for generalised inner derivations associated with operators A and B on H .