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Vern Ival Paulsen* (vern@math.uh.edu), Department of Mathematics, University of Houston,
Houston, TX 77204. *A Contractive MASA Bimodule Projection Whose Range Is Not a Sub-TRO.*

Solel proved that the range of any contractive weak*-continuous MASA bimodule projection on $B(H)$ is a sub-TRO of $B(H)$. In this talk we outline the construction of a contractive MASA bimodule projection on $B(H)$, whose range is not a sub-TRO. The construction first reduces the problem to a question about contractive equivariant projections on the bounded functions on a group. We then use Hamana's theory of G -injective envelopes to construct the example. (Received August 29, 2005)