1054-46-218 **Cyril Houdayer** and **Dimitri Shlyakhtenko*** (shlyakht@math.ucla.edu), Department of Mathematics, UCLA, Los Angeles, CA 90095. *II*₁ factors with an exotic MASA.

Using an extension of techniques of Ozawa and Popa, we give an example of a non-amenable strongly solid II₁ factor M containing an "exotic" maximal abelian subalgebra A: as an A, A-bimodule, $L^2(M)$ is neither coarse nor discrete. Thus we show that there exist II₁ factors with such property but without Cartan subalgebras. It also follows from Voiculescu's free entropy results that M is not an interpolated free group factor, yet it is strongly solid and has both the Haagerup property and the complete metric approximation property. (Received September 14, 2009)