1046-46-1364 Michelle R Craddock* (craddockmichelle@aol.com). Geometric Properties inherited by Ordered Tensor Products. Preliminary report.

Grothendieck's Résumé and Memoir opened many directions and questions in functional analysis. One of them is what geometric properties can be inherited from Banach spaces X and Y to their projective tensor product $X \otimes_{\pi} Y$ and to their injective tensor product $X \otimes_{\varepsilon} Y$. I have shown that reflexivity and the Grothendieck space property are inherited from ℓ_p $(1 and any Banach lattice X to their Fremlin projective tensor product <math>\ell_p \otimes_F X$ and to their Wittstock injective tensor product $\ell_p \otimes_i X$ under some circumstances. (Received September 15, 2008)