1135-46-2105 **Alvaro Arias***, Department of Mathematics, University of Denver, 2390 S. York St., Denver, CO 80210, and **Natasha Dobrinen**, **Gabriel Giron** and **Jose Mijares**. *Banach Spaces from Barriers in High Dimensional Ellentuck Spaces.*

A new hierarchy of Banach spaces $T_k(d,\theta)$, k any positive integer, is constructed using barriers in high dimensional Ellentuck spaces (introduced by Dobrinen) following the classical framework under which a Tsirelson type norm is defined from a barrier in the Ellentuck space.

It is shown that these spaces contain arbitrarily large copies of ℓ_∞^n, with the bound constant for all n. These spaces are ℓ_p-saturated, in fact forming natural extensions of the ℓ_p spaces. They are not isomorphic to each other, but form a strict hierarchy: For fixed d and θ, for any $j < k$, the space $T_j(d,\theta)$ embeds isometrically into $T_k(d,\theta)$. (Received September 25, 2017)