D. Freeman, E. Odell, B. Sari and Bentuo Zheng* (bzheng@memphis.edu). Banach spaces with spreading bases.

In this talk, we will present the structure of Banach spaces with a conditional spreading basis. The geometry of such spaces exhibit a striking resemblance to the geometry of James’ space. Further, we show that the averaging projections onto subspaces spanned by constant coefficient blocks with no gaps between supports are bounded. As a consequence, every Banach space with a spreading basis contains a complemented subspace with an unconditional basis. This gives an affirmative answer to a question of H. Rosenthal. (Received March 15, 2017)