## 1053-52-295 Grigoris Paouris\* (grigoris@math.tamu.edu). Small ball probability estimates, PSI<sub>2</sub>-behavior and the hyperplane conjecture.

We introduce a method which leads to upper bounds for the isotropic constant. We prove that a positive answer to the hyperplane conjecture is equivalent to some very strong small probability estimates for the Euclidean norm on isotropic convex bodies. As a consequence of our method, we obtain an alternative proof of the result of J. Bourgain that every Psi-2-body has bounded isotropic constant, with a slightly better estimate. This is a joint work with Nikos Dafnis. (Received September 07, 2009)