How a bit of probability eases the study of interpolating sequences in the ball of $\mathbb{C}^n$.

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We study interpolating sequences and Carleson measures for the Hardy Sobolev spaces of the unit ball of $\mathbb{C}^n$. We use in particular basic harmonic analysis on finite group and basic probabilities via Rademacher sequences an Khintchine inequalities.

This gives new results on Hardy Sobolev spaces and their multipliers algebra; some of them completely analogous to the classical case of Hardy spaces of the ball, some of them in complete contrast to them.