$$c_i := \sup_{x_1, \dots, x_N, x_i'} |Y_1(x_1, \dots, x_i, \dots, x_N) - Y_1(x_1, \dots, x_i', \dots x_N)|$$

$$\leq \sup_{x_1, \dots, x_N, x_i'} |(x_i^{\perp})^- \cap (1 + c_{n,N}) B_n|,$$