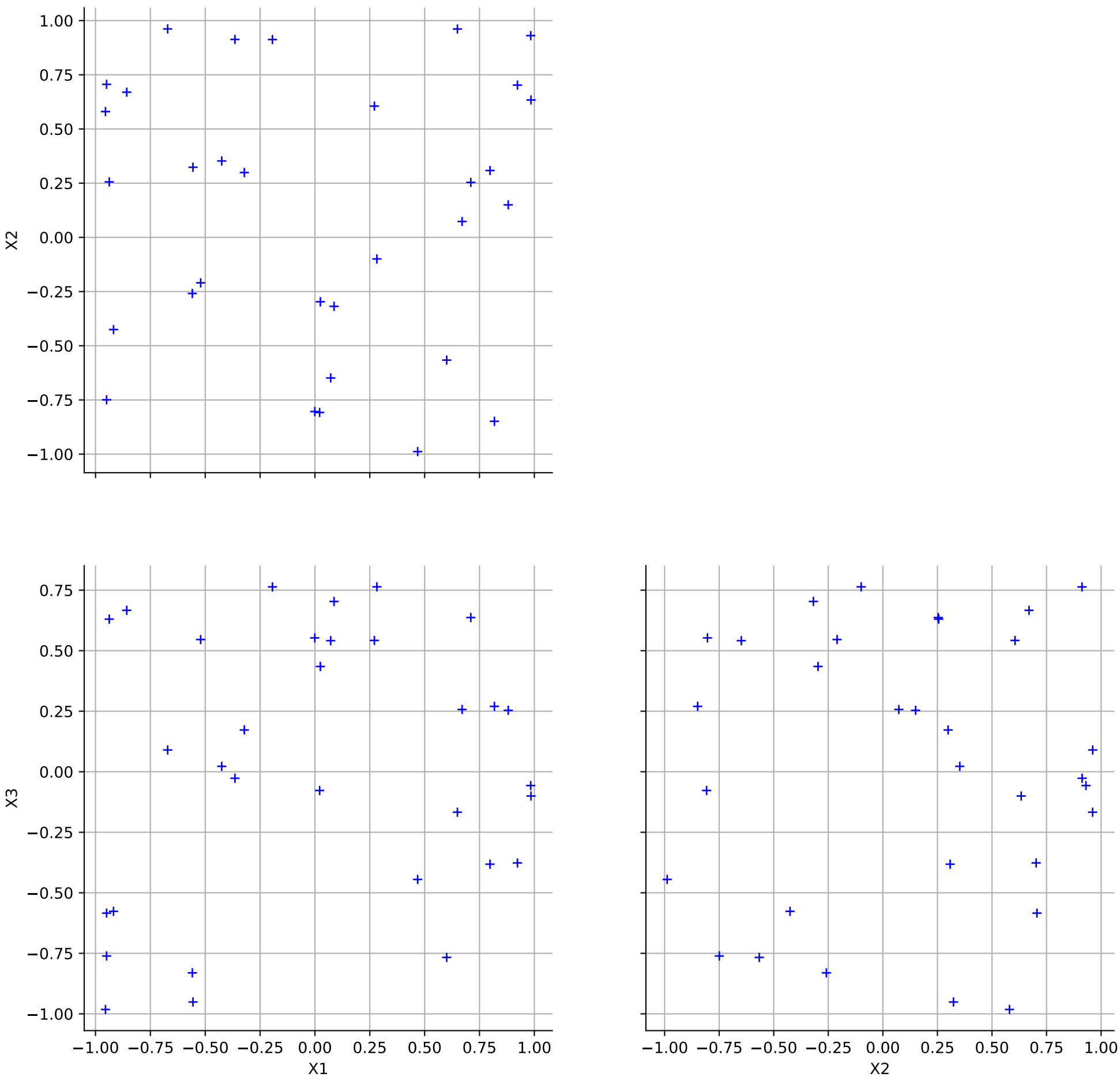MonteCarlo experiment