n=500, p=100,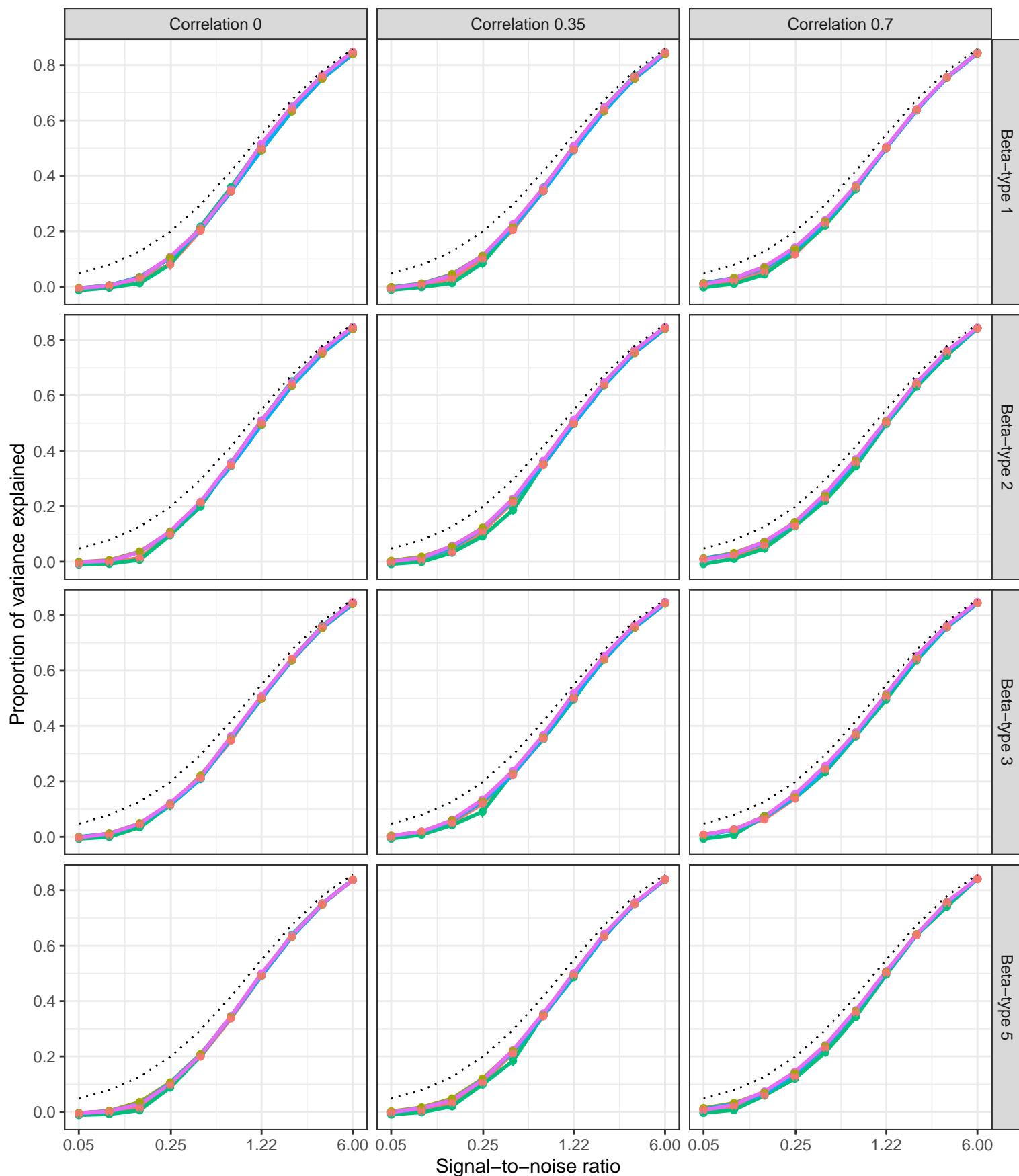 s=5