Type I errors of LMM and PLMM with varing death rate, number of simulations = 200, nsite = 30, birth rate = 1. 0.5 -0.4 death\_rate • 0.1 0.3 -▲ 0.3 ■ 0.5 + 0.7 trt -- LMM 0.2 --- PLMM 0.1 -20 30 50 60

Number of species

Type I error