cov (uz, uy) = cov([1/2m+1/2m +mm], [1/2m+1/2m +mm]) U3= 1/24 + 1/242+ Mg 4= 1/2 m+ 1/2 m2+ ma cov (1/2 m, 1/2 m)+ cov (1/2 m, 1/2 m2) + (01 (1/2 m, 1 m4) + cov (1/2 m 1 1/2 m) + \$ cov (1/2 m, 1/2 m) + cov (1/2 uz ma) + cov (mg, 2/2 mg)
+ cov (1/2 uz ma) + cov (mg, 2/2 mg)

(1/2 11 11 1 cov (mg, 2) = cov (1/2 un 1/2 un) + cov (1/2 un, 1/2 un) = 1/4 cov(u, u) + 1/4 cov(uz, uz) = 1/4 var(u) + 1/4 var(un) = 1/4 54 2 1/4 54 3-1/204?