F tests - ANOVA: Repeated measures, within-between interaction

Analysis: A priori: Compute required sample size
Input: Effect size f   =   0.105
                α err prob   =   0.05
                Power (1-β err prob)   =   0.9
                Number of groups   =   2
                Number of measurements   =   4
                Corr among rep measures   =   0.5
                Nonsphericity correction ϵ =   1
Output: Noncentrality parameter λ =   14.2884000
                Critical F   =   2.6234807
                Numerator df   =   3.0000000
                Denominator df   =   480
                Total sample size   =   162
                Actual power   =   0.9000219