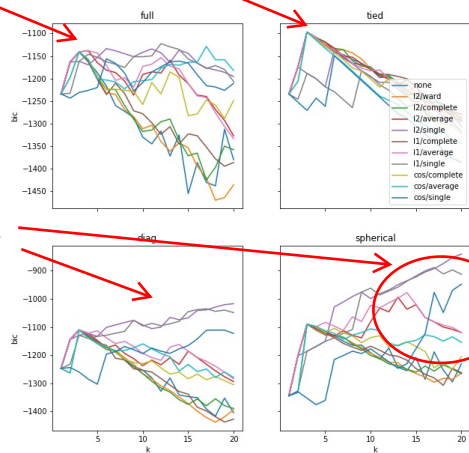
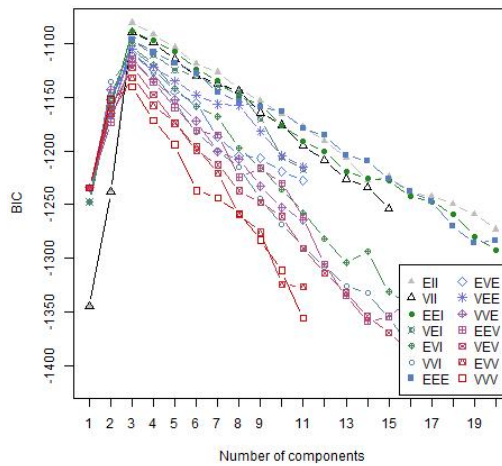
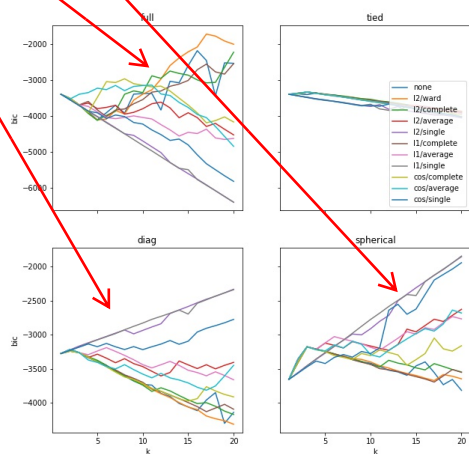


peak at k=3 is decent



diverging BIC

more diverging BIC



mclust performs well in both

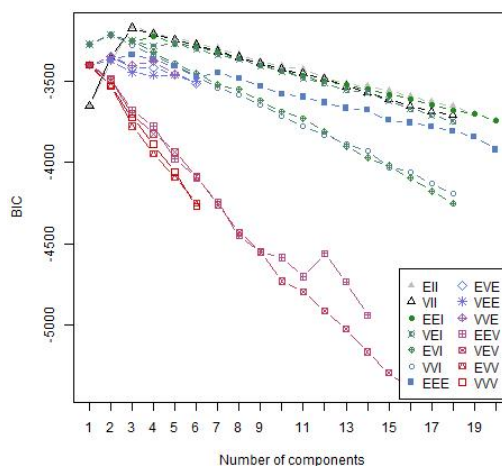


Figure 1: BIC results on clustering a simple mixture of 3 Gaussians. The mixtures have identity covariance and have means at  $[0,0...], [5,0...], [0,5...]$ . a) pyclust results on 3d mixture b) mclust results on 3d mixture c) pyclust results on 10d mixture d) mclust results on 10d mixture