

For this exercise, we'll use the `AMAS.csv` file from the last two problem sessions.

1. Draw a path model based on the factor structure we confirmed in the last problem session. There should be 2 factors and no cross-loadings. Be sure to write down the estimates for (1) the factor loadings, (2) the factor covariances, and (3) the residual variances.
2. Using the SEM module in JASP, compute modification indices and list the top 5 modifications (along with their MI values) that could be performed.
3. Choose ONE modification and build a new model (Model 2) incorporating that modification. Draw a path model for Model 2, and write down the BIC values for both models (Model 1 and Model 2)?
4. Does Model 2 fit better than Model 1? If so, by how much? Compute and interpret a Bayes factor to express this relative model fit.