* *better\_start\_pair.jl*
  + Manually finds an initial solution/choice of parameters to initiate the monodromy method. Written by Tim Duff.
* *rank\_1\_sum\_decomposition.jl*
  + GIven an input matrix M with rank r, returns an (m x r) matrix X and (n x r) matrix Y such that XY^T = M
  + Can already be done easily using SVD rather than solving a polynomial system of equations, but illustrates the need to address the extra degrees of freedom; naive formulation won’t work
  + Can we get some sense of why these particular constraints worked?
* *rectangular\_matrices\_ver.jl*
  + Can find critical points for any m, n, but only r=1
* *select\_critical\_equations\_to\_remove.jl*
  + ~~Impose constraint CX = D, where C, D are both parameters, D is (r x r) matrix~~
  + ~~Want to consider dropping r^2 of the total (m+n)\*r critical equations~~
    - ~~Not sure which equations to drop; this program makes it easier to select which equations to try dropping from the system~~
* *Li & Lim, Section 2.-2.1.jl*
  + Implements Section 2. And 2.1 (pg 2) from the paper by Zihao Li and Lek-Heng Lim
* *A-BXC.jl*
  + Finds critical points for the squared norm of A - BXC
  + Observations:
    - For (m,p,q,n) = (6,5,3,4) and r=2, closed-form solution performs better than any of the 3 solutions found by HomotopyContinuation. However, the closed-form solution does not appear to match any of the found solutions; the difference between the closed-form solution and the best solution found is not huge, but is nonetheless too big to be attributed to rounding error or floating point (
    - For (m,p,q,n) = (6,5,3,4) and r=3, closed-form solution exactly matches (up to error on order of 10^-16) the single computed solution
* *A-BXC\_permutations.jl*
  + Brute force to see if any permutations of the matrices that make up the closed-form solution match up with any of the other critical points
  + Unable to get any additional critical points; if there is a “closed-form” for all of the critical points, it may be more involved/complicated