
Implicit and Explicit Realizations of Polynomial Terms in Loewner

This code accompanies the paper

Implicit and explicit matching of non-proper transfer functions in the Loewner framework by Ioan Victor Gosea and Jan Heiland

that we submitted for presentation at the CDC 2024.

To reproduce the simulations and the plots for the data-identified models (Section V.D), open *Matlab* and run the following scripts

```
test_Loewner  
test_polyAA  
postproces
```

This will produce the figures of the *MSD* example. To produce the *NSE* example, set `problem= 'NSE' ;` in the top part of all of `test_polyAA.m`, `test_Loewner.m`, and `postproces.m`.