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## **LARSyS Special Course**

### **Delay systems**

I intend to cover the following topics from the point of view of complex analysis and operator theory. The material will be illustrated by simple examples.

Delay equations and transfer functions.

Retarded, neutral and advanced delay systems.

Notions of stability (asymptotic,  $H^\infty$ , BIBO).

Robust stabilization using coprime factorizations.

Model reduction (rational approximation).