

## CIME Summer School Recent stability issues for linear dynamical systems. Matrix nearness problems and eigenvalue optimization

## Lectures

*Course 1* - N. Gillis (Univ. Mons, Belgium), Solving matrix nearness problems via Hamiltonian systems, matrix factorization and optimization *Course 2* - N. Guglielmi and Ch. Lubich (GSSI, Italy & Univ. Tübingen, Germany), Eigenvalue optimization and matrix nearness problems via constrained gradient systems

*Course 3* - V. Mehrmann (Univ. Berlin, Germany), Regularity, stability, passivity and controllability of structured linear descriptor systems *Course 4* - B. Vandereycken (Univ. Genève, Switzerland), Algorithms for eigenvalue optimization related to stability of dynamical systems

## Schedule

Monday Sept 06, 2021	Tuesday Sept 07, 2021	Wednesday Sept 08, 2021	Thursday Sept 09, 2021	Firday Sept 10, 2021
09-10 Course 2 (Lubich)	09-10 Course 1	<i>09-10</i> Course 3	09-10 Course 4	09-10 Course 4
10-11 Course 2 (Guglielmi)	<i>10-11</i> Course 3	10-11 Course 4	10-11 Course 2 (Lubich)	<i>10-11</i> Course 3
<i>11-12</i> Course 1	11-12 Course 2 (Guglielmi)	11-12 Course 1	<i>11-12</i> Course 3	<i>11-12</i> Course 1
				12-13 Course 4
18-19 Course 3	18-19 Course 2 (Lubich)		18-19 Course 1	
			19-20 Course 4	