

Doctoral program in microsystems and microelectronics

Course MICRO-623 // October-November 2024

“Modelling micro-/nano- field effect electron devices”

Jean-Michel Sallese, MER - Room ELD120

We will discuss physics-based modeling for selected architectures of field-effect transistors in advanced CMOS technology as well as field-effect based biosensors.

Examination:

Students will be asked to discuss featuring concepts presented in the lectures in the form of a two pages report and, whenever possible, bridge it with to their current research.

Requisite: basics of electrostatics and semiconductor physics.

Agenda

Tuesday 29.10.2024

10:15-12:00

Friday 1.11.2024

10:15-12:00

Tuesday 5.11.2024

10:15-12:00

Friday 8.11.2024

10:15-12:00

Tuesday 12.11.2024

10:15-12:00

Friday 15.11.2024

10:15-12:00 and 14:15-16:00

