



# Workshop 19 September 2025

## Breaking Barriers: Modeling and Characterization Insights for Microwave Applications

2<sup>o</sup> edition 2025

**Chair** Valeria Vadalà

### 9.15 Welcome from

**Claudia Riccardi, Head of the "G. Occhialini" Physics Department, University of Milano-Bicocca**

**Renato Lombardi, Huawei Fellow**

### 9.45 Enrico Zanoni (University of Padova, Italy)

**Device scaling and deep level effects in RF GaN HEMTs**

### 10.30 Marco Spirito (University of Delft, The Netherlands)

**Design Flow for Broadband Validation of CMOS Device Models up to (sub)mm-Waves**

### 11.15 – 11.45 Coffee Break

### 11.45 Teresa M. Guerrero (University of Malaga, Spain)

**Nonlinear Models: Overcoming Microwave Design Challenges**

### 12.30 – 14.00 Lunch

### 14.00 José C. Pedro (University of Aveiro, Portugal)

**Advancements on Microwave Power HEMT Modeling**

### 14.45 Pere L. Gilabert (Universitat Politècnica de Catalunya, Spain)

**Low-Complexity Adaptive Digital Predistortion for User Equipment Linearization**

### 15.30 Wrap up

**University of Milano Bicocca, Building U6, Aula Martini**

