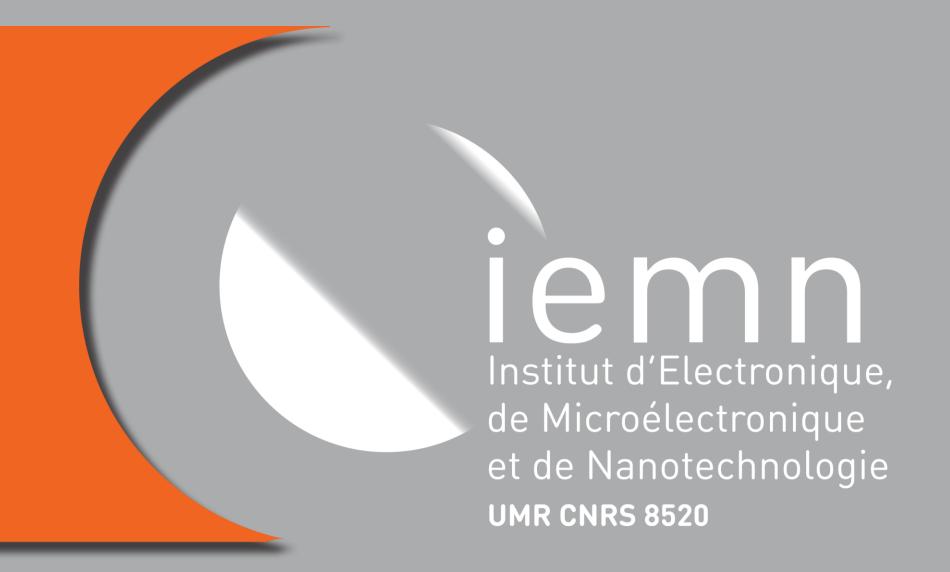
EPIPHY GROUP **Epitaxy and Physics of Heterostructures**



Permanent researchers: Djamila Hourlier (DR CNRS), Ludovic Desplanque (MCF), Dominique Vignaud (CR CNRS) and Xavier Wallart (DR CNRS)

Engineers: C.Coinon, J.-L.Codron Post-doc: I.Colambo, G.Deokar

PhD Students: M.Fahed, V.K. Chinni, A.Bucamp, J. Hadid, S. Shishodia, S. Venkatachalam

Main thematics

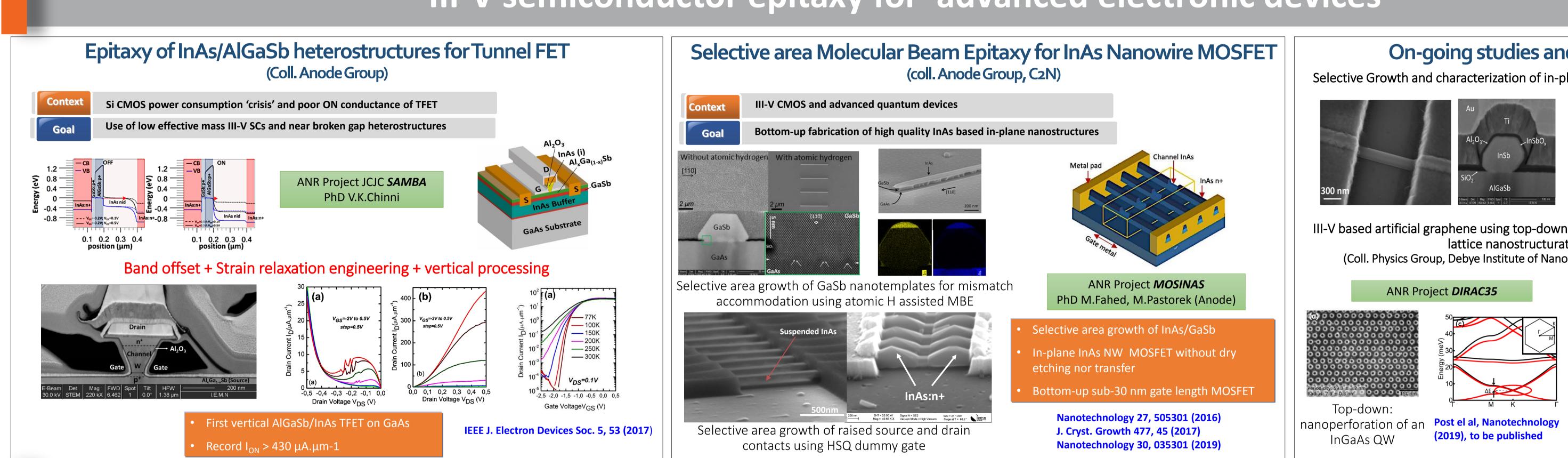
Elaboration and characterization of (nano)materials for high frequency, low power applications and advanced devices:

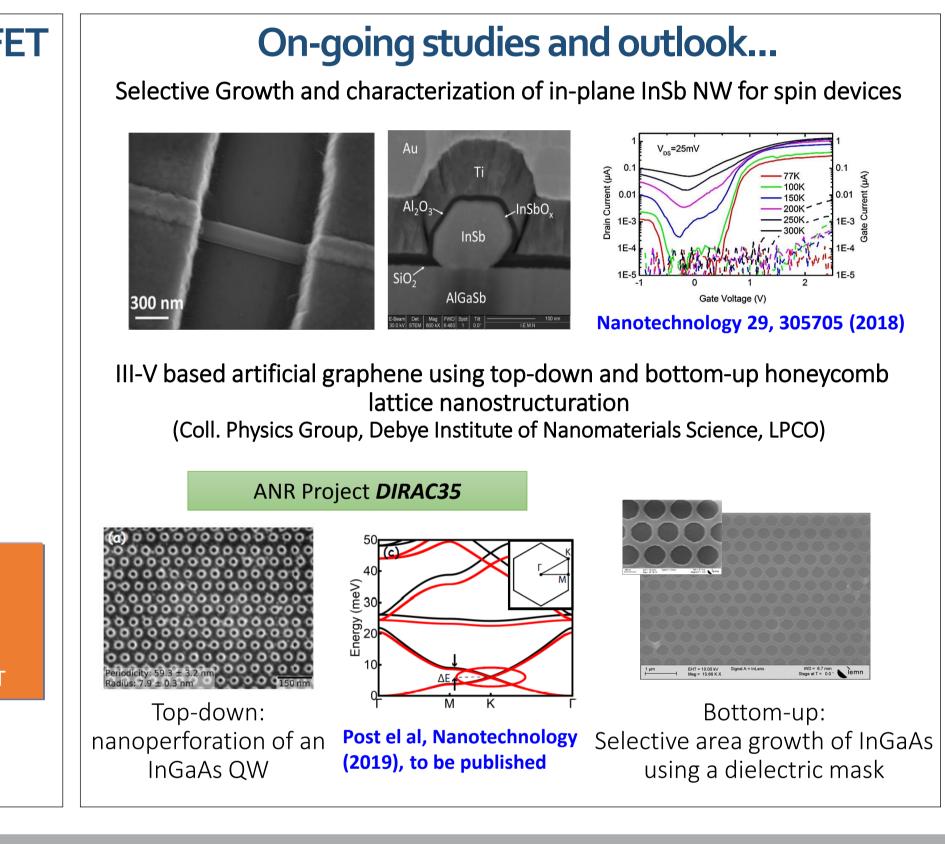
- III- V semiconductors: 2D heterostructures and nanostructures
- 2D materials: graphene epitaxy on SiC and metals hBN epitaxy -Transition Metal Dichalcogenides (TMDC)
- Organic-inorganic composite nanomaterials

General objectives

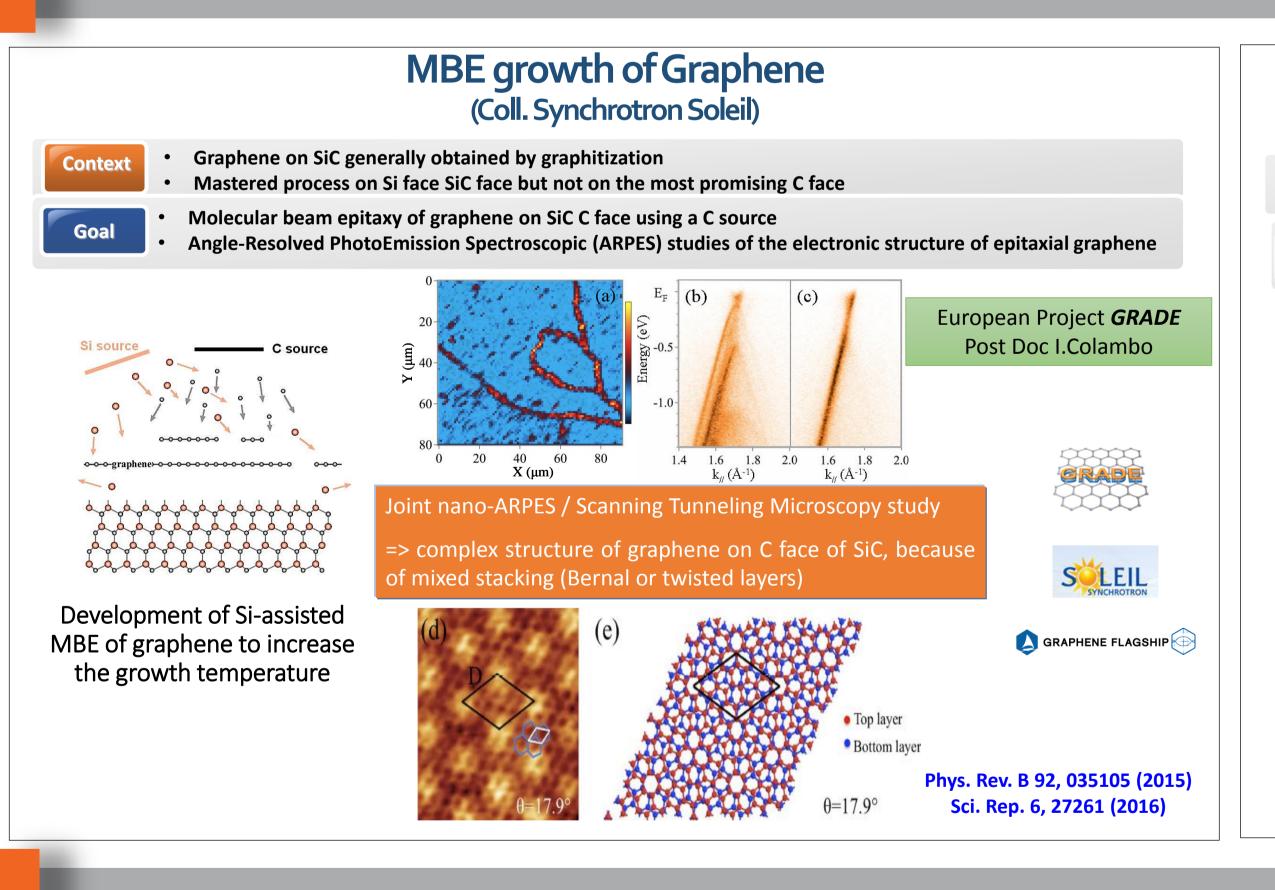
- Growth of controlled structures for device purposes
- Understanding growth mechanisms
- Development of new processes or material heterostructures for advanced devices
- In-depth physical and chemical characterization of grown materials

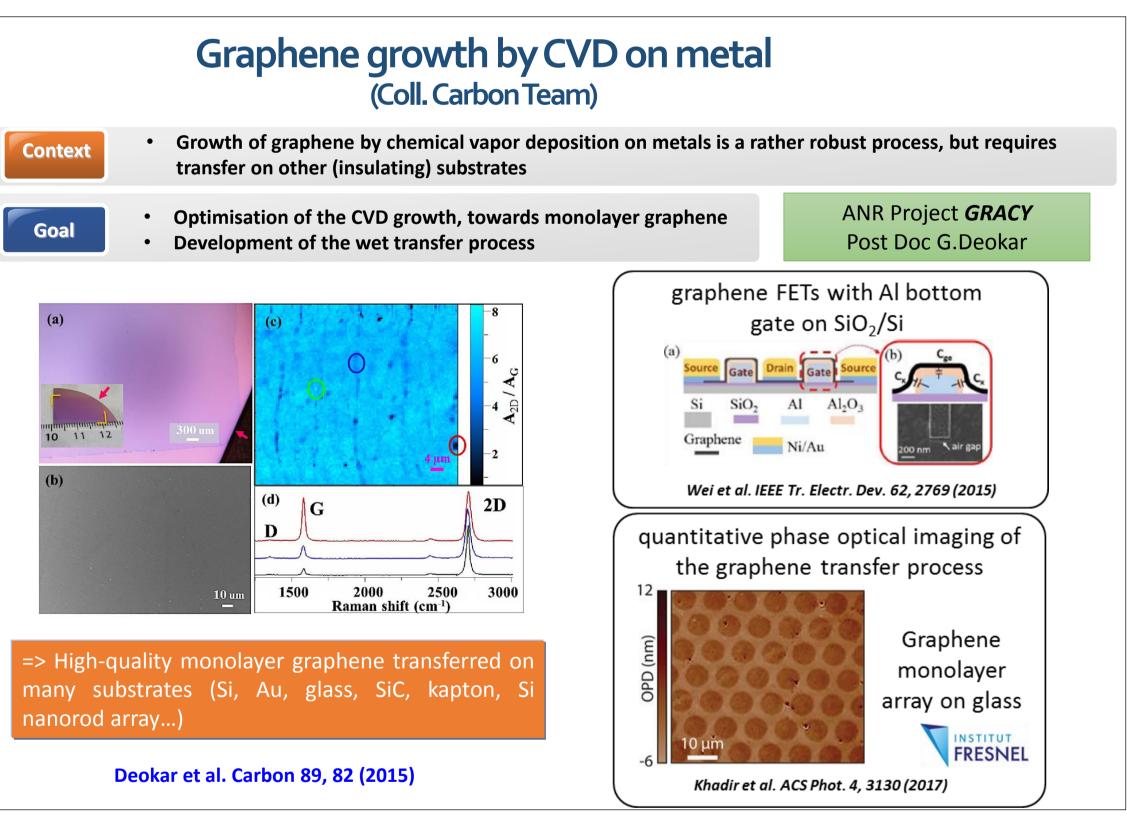
III-V semiconductor epitaxy for advanced electronic devices

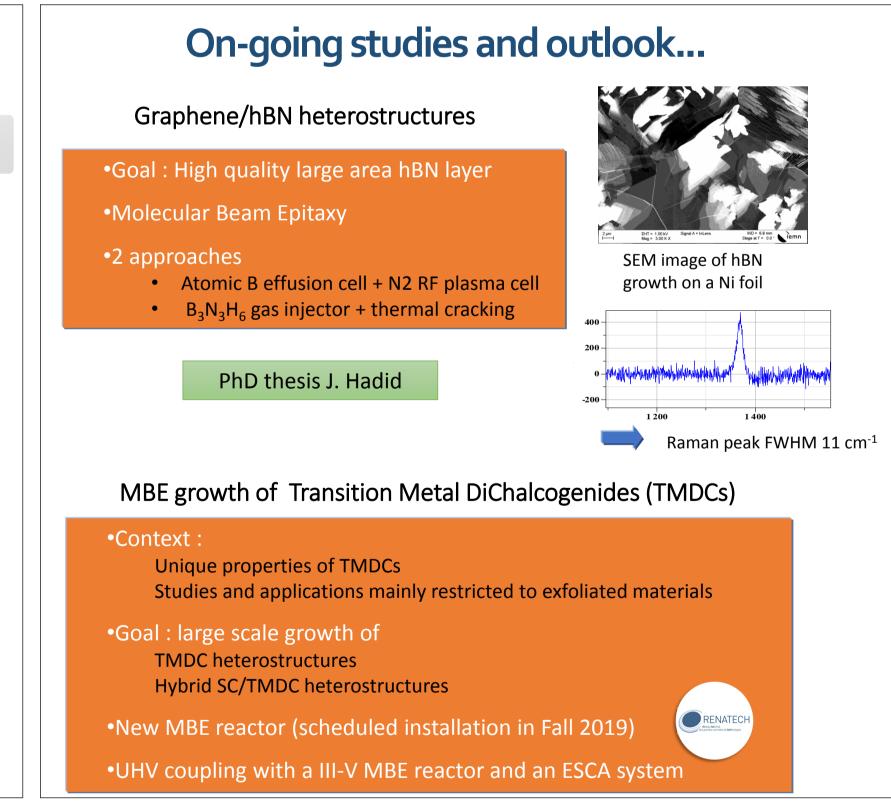




Epitaxy of 2D materials







Polymer-derived carbon materials

