



## ***PHYDYAS Workshop detailed program***

### ***The advent of cognitive radio systems : impact of the physical layer***

***10h00 Opening of the workshop Maurice Bellanger (CNAM)***

***Morning (10h05 - 12h45) : Cognitive radio physical layer Chairman: Markku Renfors (TUT)***

- 10h05 ***Invited speaker:*** Multicarrier techniques for cognitive radio, ***Behrouz Farhang-Boroujeny*** (Univ.Utah)
- 10h45 Filter bank design for multicarrier transmission and spectrum sensing, ***Markku Renfors*** (TUT)
- 11h05 Data aided and blind synchronization, ***Mario Tanda*** (UNINA)
- 11h25 Coffee break
- 11h45 Equalization and optimization in FBMC, ***Jérôme Louveaux*** (UCL)
- 12h05 MMSE equalization of FBMC systems with forward error correction, ***L.Baltar, D.Waldhauser, J.A.Nossek*** (TUM)
- 12h25 Channel estimation and tracking for MIMO – FBMC systems, ***L.Kofidis*** (RA-CTI)
- 12h45 End of morning session

***Afternoon (14h15 - 17h45) : Cognitive radio scenarios Chairman: Josef Nossek (TUM)***

- 14h15 ***Invited Speaker:*** Overview of Cognitive Radio, ***P. Mähönen and M. Petrova*** (RWTH-Aachen)
- 14h55 FBMC and Cognitive Radio, ***D. Le Ruyet, D.Roviras*** (CNAM)
- 15h15 ***Invited Speaker:*** Cognitive Radio in TV bands - 802.22, ***Monisha Ghosh*** (Philips-USA)
- 15h55 Coffee break
- 16h15 Dynamic spectrum allocation in uncoordinated cognitive radio networks based on adaptive antenna array interference mitigation diversity, ***A.Kuzminskyi*** (ALUK)
- 16h35 Cognitive radio scenario with cooperation between nodes, ***C.Bader***, (CTTC)
- 16h55 ***Invited Speaker:*** Cognitive Radio Standardization objectives in FP7, ***R.Biswas and W.Koenig***, EU/RAS-SEG
- 17h35 Open questions and discussion

***17h45 Conclusion of the workshop, Maurice Bellanger (CNAM)***