IABEST: An Integrated Access and Backhaul 5G Testbed for Large-scale Experimentation

Eugenio Moro*, Michele Polese#, Ilario Filippini*, Stefano Basagni#, Antonio Capone*, Tommaso Melodia#

* Politecnico di Milano, Milan, Italy
# Northeastern University, Boston MA, USA
Emulating IAB with OAI on Colosseum
Massive Channel Emulator (MCHEM)

RF Scenario
- Mobility
- Pathloss
- Interference
- Fading

I/Q Samples
- RF
- Wired

IAB-Donor
- USRP x310
  - I/Q Samples
- OAI gNB
- OAI UE

MT
- USRP x310
  - I/Q Samples
- OAI gNB
- OAI UE

DU
- USRP x310
  - I/Q Samples
- OAI gNB
- OAI UE

UE
- USRP x310
  - I/Q Samples
- OAI gNB
- OAI UE

5G CN
- SPGWU
- AMF
- SMF
- Docker

IAB-Node
- Wired

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