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CNIT Talk: The New Radio

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Why do we need a New Radio?



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3GPP NR – the flexible 5G network



3GPP, "NR and NG-RAN Overall Description – Release 15," TS 38.300, 2018.

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Flexible frame structure



Self-contained subframe



Low latency support





mmWave communications





Flexible deployment options



Radio Access Network

Core Network



Is 5G done?

- New applications of mmWave (vehicular)
- End-to-end performance

- Testbeds and deployments
- Fundamental trade-offs

NYU-UNIPD end-to-end 5G mmWave simulator bit.ly/ns3-mmwave

mmWave networking research mmwave.dei.unipd.it





