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Sommario/riassunto

"Due to the explosive demand of high data rates by subscribers and applications, 5G in wireless communication is dynamic and keeps evolving to cater to future needs. As conventional schemes and techniques have their limitations in terms of performance, modification and adaptiveness are required while designing the architecture. Also, limited spectrum availability has pushed towards work in high frequency bands with bandwidth availability in abundance. At these high frequencies the expected losses are also very high in comparison to previous generations of communications. These losses at high frequencies can be overcome by deploying high power, multiple transmitting antennas, called massive MIMO. With a larger number of antennas, the power of multiple antennas can be combined together to form beams for loss coverage."--