

Interference analysis with relay deployment

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Abstract:

Fix relay has been adopted by 3GPP for the next generation cellular system because of its low cost and easy deployment. Relay is expected to provide improvement in the system spectral efficiency and coverage. Comparing to pico-cell and remote radio head, relay is initially proposed to extend coverage where wired-backhaul connection is not easy deployed. In here, we investigate how deploying relay in the cellular network can fill in dead spot in the macro-cell network; provide higher spectral efficiency, higher cell edge user throughput and lower the interference temperature due to inter-cell and intra-cell interference.