Channel-induced errors  Hardware defects

HSPA+ System  LLR Storage

Injected Errors  Hybrid ARQ

For various defect rates ($N_d$) create memory instances with faults

HARQ memory: Bit-flips at random locations

Direct retransmissions

Received data packet

Packet combining

Hybrid ARQ

Soft channel decoding

Receiver

Transmitter

Matched filtering  Soft equalizing  P/S  Deinterleaving

Baseband receiver

Hybrid ARQ

Soft channel decoding

Normalized system throughput

Average HARQ transmissions

Normalized system throughput

Requirement for this mode (64QAM)

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Graphs and plots representing various metrics and data points.