

What are the requirements to realize the interference cancellation through filtering/superimposing/forwarding for the model explained on page 61?

- Levels of granularity for minimum “delay” requirements to realize cooperation:
 - Time Sample?
 - Modulation Symbol (e.g., OFDM symbol)?
 - Coding Block? – this is required in Information Theoretical studies in order to use random coding and reliable transmission.
- In some cases of Network Information Theory, including the case discussed on page 61, to realize cooperation, it is enough if total transmission delay is less than the channel memory.
 - This minimum delay requirement is less than a “modulation symbol (OFDM symbol)” and less than a “coding block”.
 - In OFDM, such a delay required to realize cooperation is absorbed in the OFDM cyclic prefix, and its effect translates into a complex value in each OFDM tone.