

## Quiz 6 - MIMO

111550057 資工15 莊婷馨

1. What is the full name of MIMO?

MIMO is the abbreviation of “Multiple-Input Multiple-Output”.

2. What is "Space diversity"?

Space diversity is a technology that generates different versions of a same data stream, making data transmission more reliable. The data stream can be encoded, modulated, and then transmitted on different antennas. The receiver uses a spatial equalizer to receive signals separately and then performs demodulation and decoding to combine the signals of the same data stream and restore the original signals.

3. What does MxN MIMO mean?

M represents the number of Tx antennas and N represents the number of Rx antennas in a MIMO system. For example, 4x3 MIMO indicates four Tx antennas and three Rx antennas.

4. What is the maximum number of streams supported in a 4x4 MIMO system?

A 4x4 MIMO system supports a maximum of 4 spatial streams.