



## NON-UNITARY EXTENSIONS OF DIFFERENTIAL MATRIX MODULATION (ThuAmOR4)

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✱ Abstract :

Differential matrix modulation is an attractive alternative for MIMO transmission since it does not require channel estimation at the receiver. Most proposals are based on unitary matrices. Assuming a receiver with relatively low complexity, we will show that the performance at higher bandwidth–efficiency can be improved by using non–unitary matrix constellations. We compare different non–unitary schemes and their soft–output detectors.

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