## I. Sparse Recovery

# A. Sparsity = 50%

# SNR = 20dB:

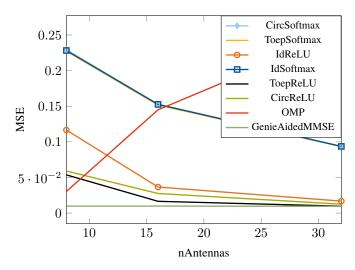


Fig. 1: MSE with Sparse Recovery SNR = 10dB

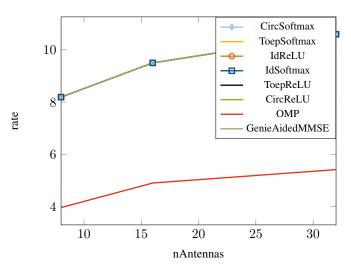


Fig. 2: Rates with Sparse Recovery SNR = 10dB

# B. Sparsity = 25%

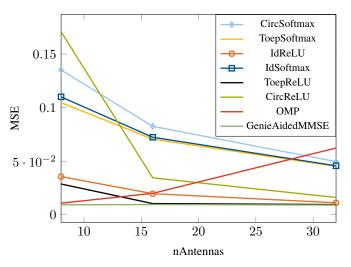


Fig. 3: MSE with Sparse Recovery SNR = 20dB

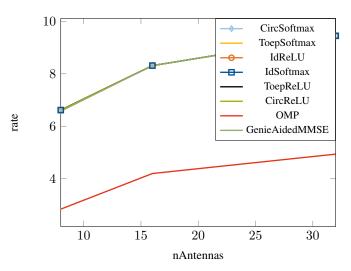


Fig. 4: Rates with Sparse Recovery SNR = 20dB

## II. SPARSITY TESTS

## Sparsity = 25%, 32 antennas

## A. Sparsity = 25%

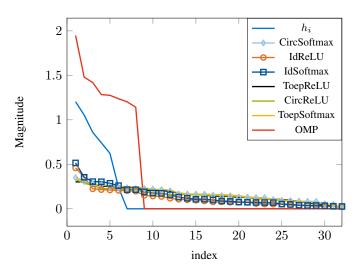


Fig. 5: Comparison of input and output with CNN with 8000 samples and SNR = 0 dB

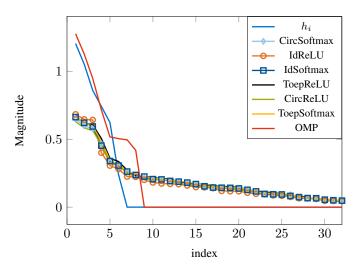


Fig. 6: Comparison of input and output with CNN with 8000 samples and SNR = 10 dB

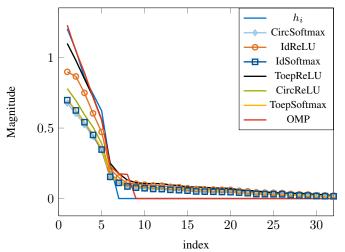


Fig. 7: Comparison of input and output with CNN with 8000 samples and SNR = 20 dB

TABLE I: Simulation parameters

	SNR	0/10/20
	nLearningBatches	8000
	nLearningBatchSize	50
	sparsity	25%
	nBatches	200
	nBatchSize	50

TABLE II: Testing parameters

Number of samples	6000
Number of antennas	32