NP PD trained MMSE MIMO nmlz ChEst with IRS vs SNR in UMa28

 $[n_R, n_I, n_T, T]$: [4, 8, 4, 32], datasize: 24 25 LS w/ I LMMSE w/ H LS w/ D -X- NP PD w/ \I LS w/ H ··×·· NP PD w/ DFT 20 → NP PD w/ Had LMMSE w/ I ·· LMMSE w/ D → NP PD w/ TNN 15 NMSE(dB) (9.78)10 (8.25)(4.71)5 (3.12)(2.29) (0.33)0 **(**-1.72) (-2.87) **-**5 -40 6 10

SNR(dB)