Strehl ratio over time (s) for varying reconstructors and atmospheres  $D/r_0 = 2$  $D/r_0 = 1$  $D/r_0 = 4$  $D/r_0 = 8$ 1.01.0 0.8 0.8 0.8 0.8 0.6 0.6 0.6 0.6 0.40.40.40.40.2 0.2 0.20.20.0 0.0 0.0 0.0 0.251.00 0.250.750.250.00 0.500.750.000.50 0.751.00 0.000.250.501.00 0.000.500.75 $D/r_0 = 16$  $D/r_0 = 32$  $D/r_0 = 64$ 1.0 1.0 1.0 -No lantern (NCPA) 0.8 0.8 0.8 Interaction matrix -Neural network 0.6 0.6 0.6 -Gerchberg-Saxton 0.40.40.40.20.20.20.0 0.0 0.0 0.00 0.250.50 0.751.00 0.250.500.250.500.000.751.00 0.00