Gaussian elimination vs LU-decomposition with varying number of grid points of the Poisson equation 0.7 Numerical, n= 10 LU, n=100.6 Numerical, n= 100 LU, n= 100 Numerical, n = 10000.5 LU, n = 10000.4 a(x)0.3 0.2 0.1 0.0 0.0 0.2 0.4 0.6 8.0 1.0

X