**February 20, 2024**

1. Symbol error probability comparison of Bob and Eve versus SNR with varying N in circularly symmetric complex Gaussian channels.

N\_B = 0.01, N\_E = 0.03, D = 0.3, var\_B = var\_E = 0.01

A graph of a number of objects

Description automatically generated with medium confidence

N\_B = 0.01, N\_E = 0.01, D = 0.3, var\_B = var\_E = 0.01

A graph of a number of objects

Description automatically generated with medium confidence

A graph showing the number of objects in the same direction

Description automatically generated with medium confidence

2. Symbol error probability of Bob and Eve versus SNR with varying $K\_E$ in circularly symmetric complex Gaussian channels

N\_B = 0.01, N\_E = 0.03, D = 0.3, Var\_B = Var\_E = 0.01

A graph of different colored lines

Description automatically generated

N\_B = 0.01, N\_E = 0.01, D = 0.3, Var\_B = Var\_E = 0.01, [4, 8, 16, 32]

A graph of different colored lines

Description automatically generated

N\_B = 0.01, N\_E = 0.01, D = 0.3, Var\_B = Var\_E = 0.01, [2, 3, 4, 8]

A graph of different colored lines

Description automatically generated

**February 21, 2024**

**1. Gaussian real-valued channels**

% % Test 1

% N\_B = N\_E = 0.01, var\_B = var\_E = 0.01, D = 0.3

% H\_B = [0.1458 0.0633; 0.0974 0.0366]

% H\_E = [-0.0803 -0.0827; 0.0058 0.0530]

A graph of a graph with a line

Description automatically generated with medium confidence

% % Test 2

% N\_B = N\_E = 0.01, var\_B = var\_E = 0.01, D = 0.3

% H\_B = [0.0262 0.0049; -0.1598 -0.2414]

% H\_E = [0.0498 0.0194; -0.0446 -0.0758]

A graph of a function

Description automatically generated with medium confidence

**2. Circularly symmetric complex Gaussian channels**

% % Test 1

% N\_B = N\_E = 0.01, var\_B = var\_E = 0.01, D = 0.3

% H\_B = [0.0690 - 0.1505i -0.0337 + 0.0844i; -0.0662 - 0.0556i 0.2007 + 0.1106i]

% H\_E = [-0.0248 + 0.1062i 0.0267 - 0.0529i; -0.1206 + 0.0396i 0.0119 + 0.0212i]

A graph of a graph with a blue line

Description automatically generated

A graph of a graph with a blue line

Description automatically generated

% % Test 2

% N\_B = N\_E = 0.01, var\_B = var\_E = 0.01, D = 0.3

% H\_B = [-0.0854 + 0.1241i -0.0038 - 0.0286i; 0.1291 - 0.0575i -0.0345 + 0.0952i]

% H\_E = [-0.0258 - 0.0657i -0.0514 - 0.0075i; 0.0968 + 0.0523i -0.0752 + 0.0008i]

A graph of a person and person

Description automatically generated

**February 21, 2024**

**1. Deterministic Gaussian real-valued channels**

% N\_B = N\_E = 0.01, var\_B = var\_E = 0.01, D = 0.3

% H\_B = [0.0262 0.0049; -0.1598 -0.2414]

% H\_E = [0.0498 0.0194; -0.0446 -0.0758]

**A graph of a graph showing the same number of objects

Description automatically generated with medium confidence**

**2. Stochastic Gaussian real-valued channels**

% N\_B = N\_E = 0.01, var\_B = var\_E = 0.01, D = 0.3

**3. Circularly symmetric complex Gaussian channels**

% N\_B = N\_E = 0.01, var\_B = var\_E = 0.01, D = 0.3

% H\_B = [-0.0854 + 0.1241i -0.0038 - 0.0286i; 0.1291 - 0.0575i -0.0345 + 0.0952i]

% H\_E = [-0.0258 - 0.0657i -0.0514 - 0.0075i; 0.0968 + 0.0523i -0.0752 + 0.0008i]

A graph of a graph showing the same number of objects

Description automatically generated with medium confidence