semilogy(EbNodB, BER\_128\_256, 'DisplayName', sprintf('Rate = 1/2, List Size 4')); % Rate 1/2

hold on;

semilogy(EbNodB, BER\_L\_8, 'DisplayName', sprintf('Rate = 1/2, List Size 8')); % Rate 1/2 with List sixe 8

hold on;

semilogy(EbNodB, BER\_128\_512, 'DisplayName', sprintf('Rate = 1/4')); % Rate 1/4

hold on;

semilogy(EbNodB, BER\_128\_1024, 'DisplayName', sprintf('Rate = 1/8')); % Rate 1/8

grid on;

xlabel('E\_b/N\_0 (dB)');

ylabel('BER');

legend('Location', 'southwest');

title('Polar Codes(SC List Decoding): BER vs E\_b/N\_0 (dB)');