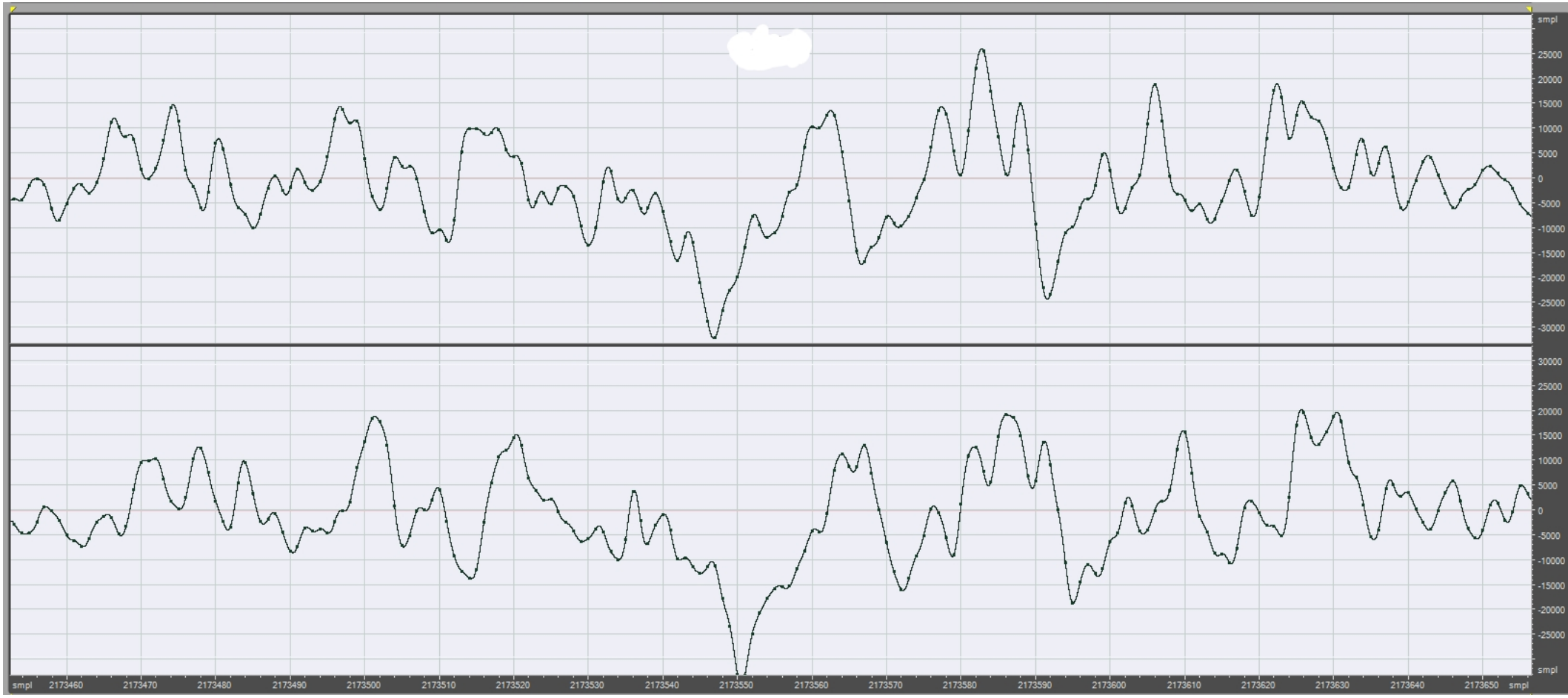
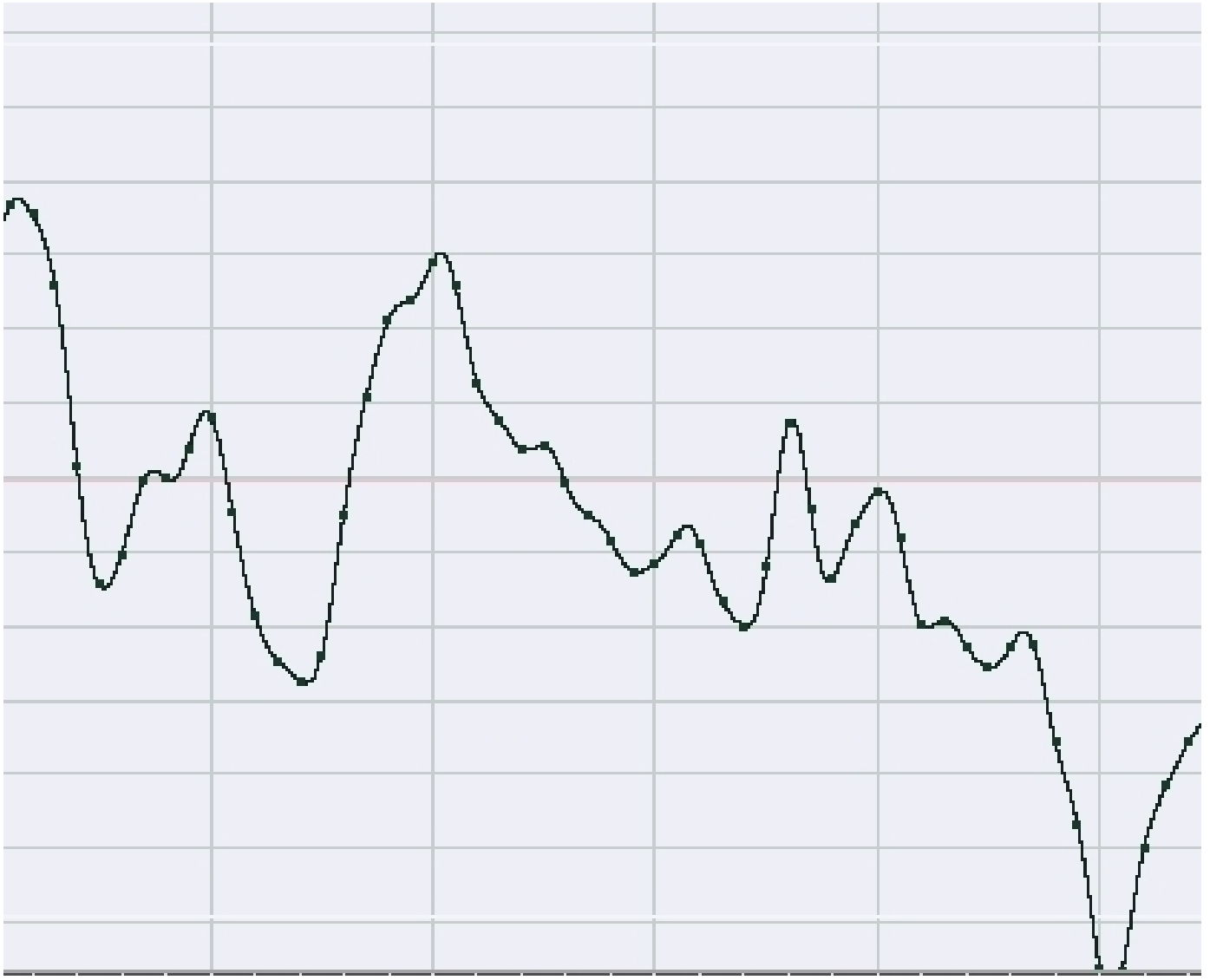
A Markov Model for Audio Signals
(or: Information Calculations With Finite Strings)

Jason Barnett
Physics 256 final project

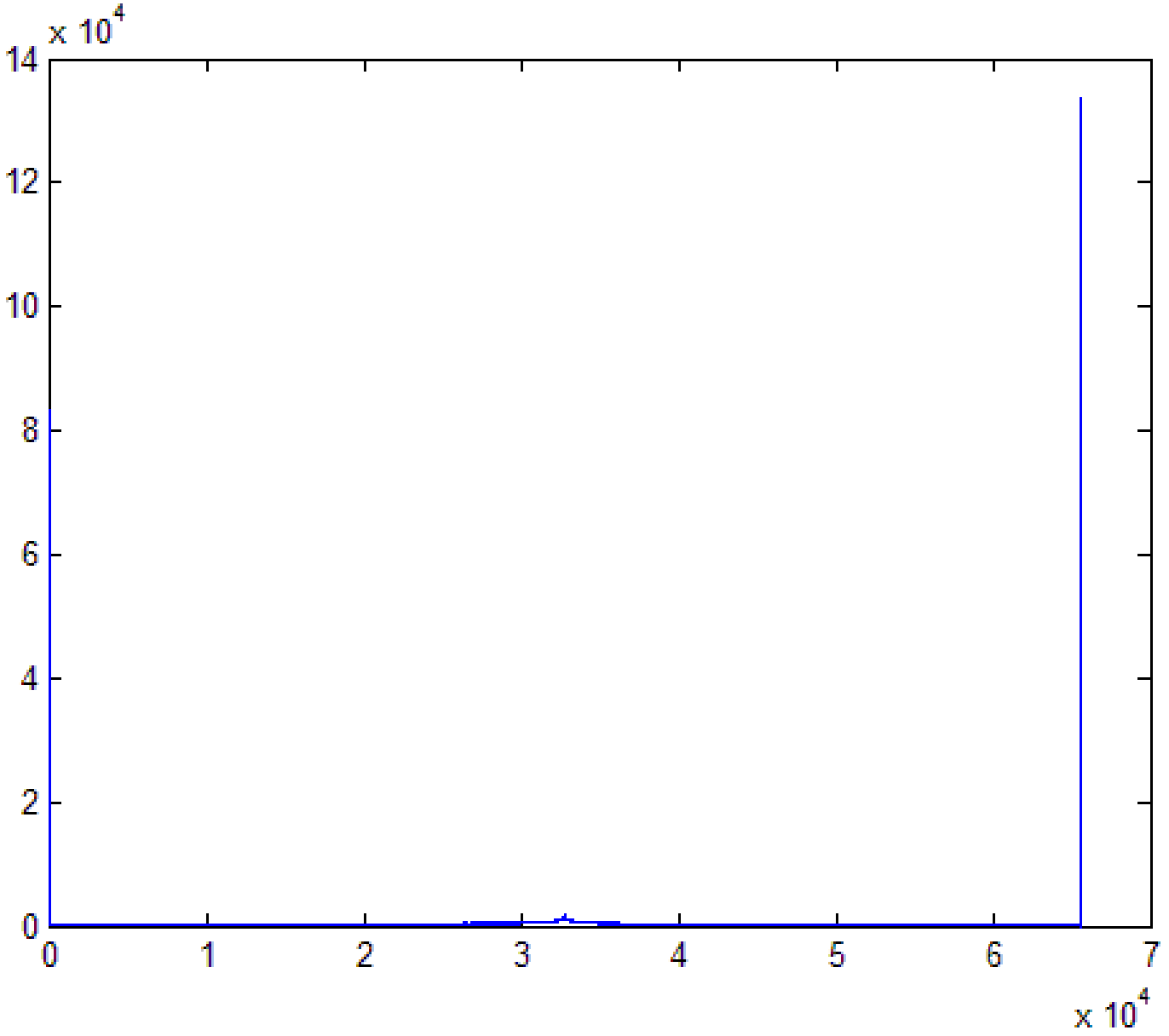
Audio Signal



Audio Signal



L=1 Counts



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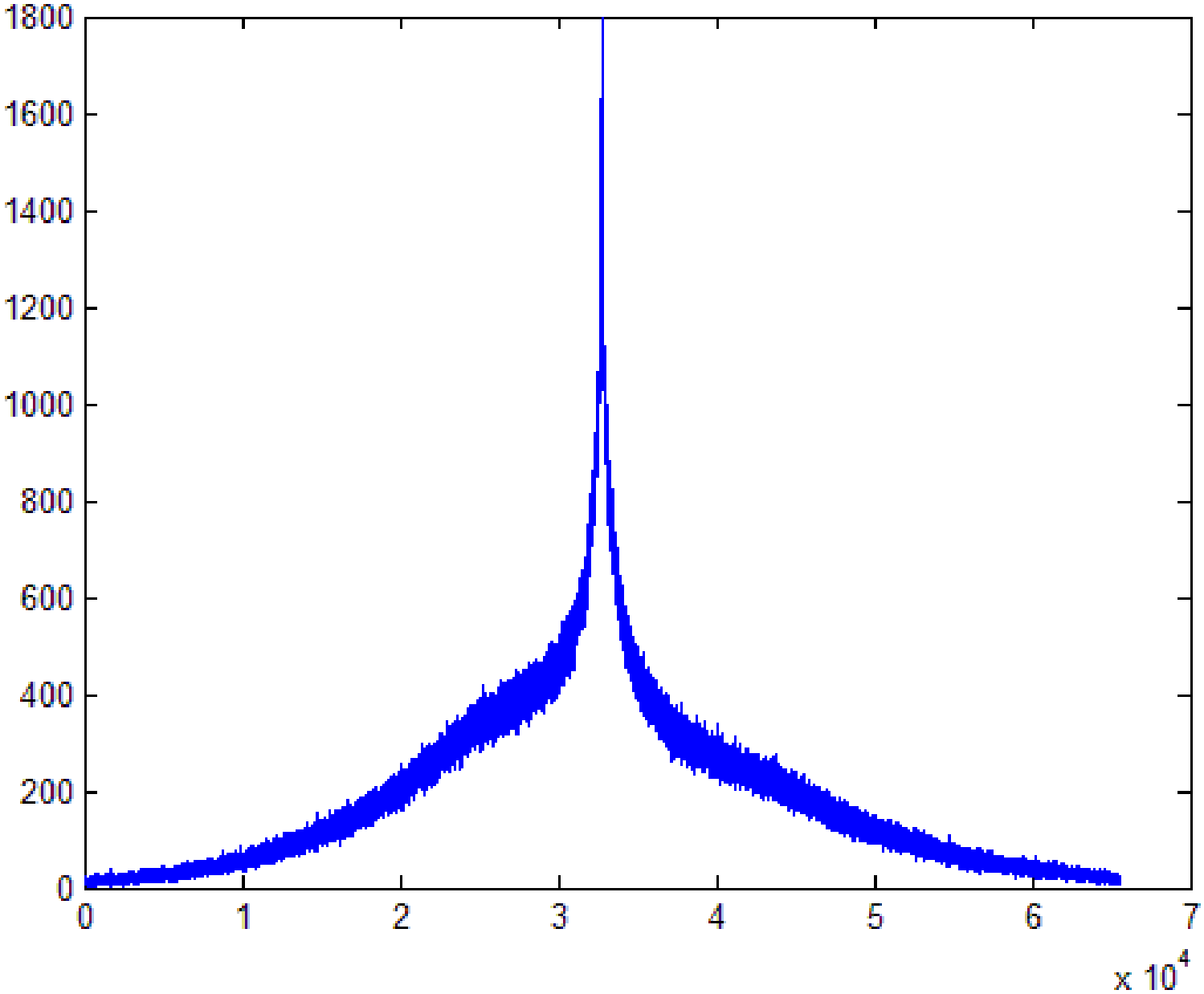

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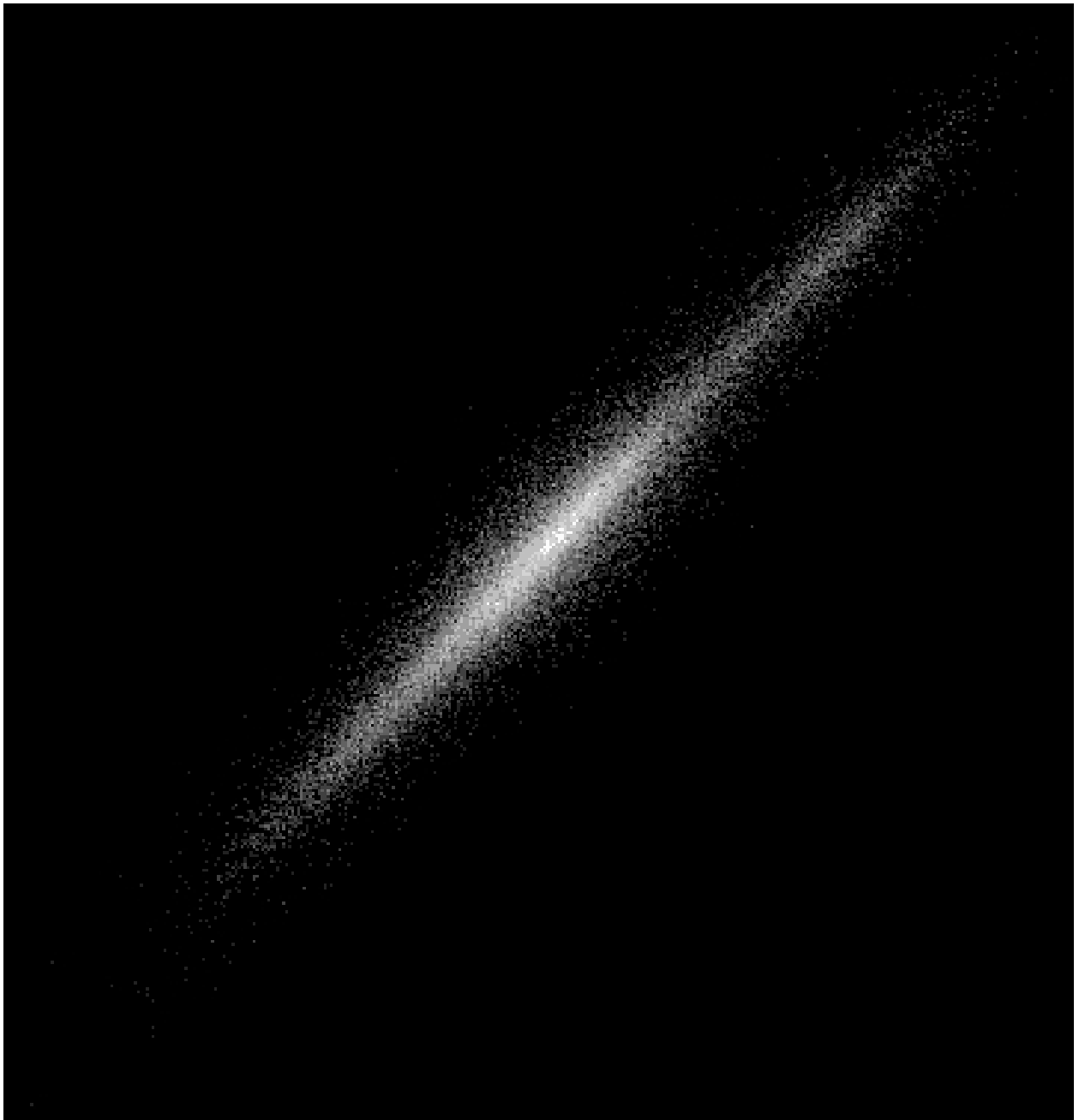
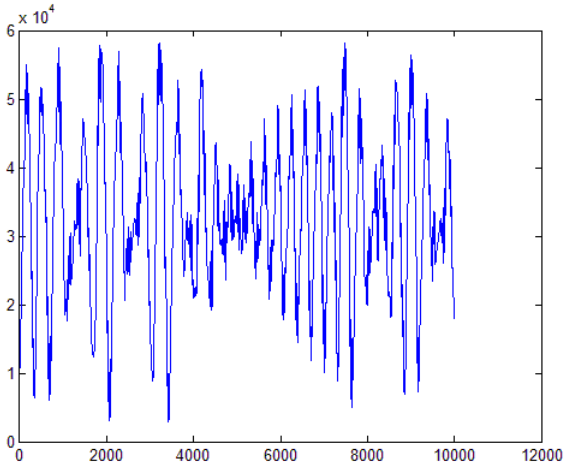
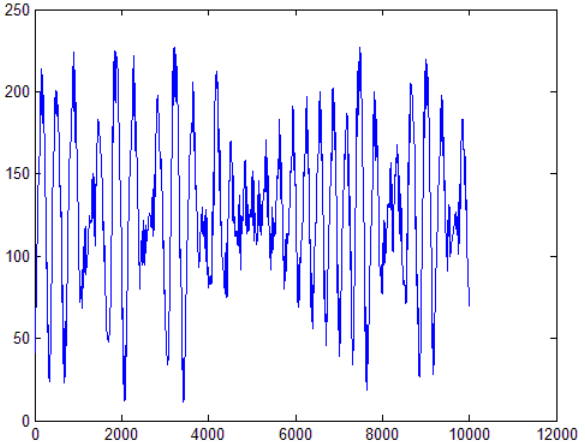
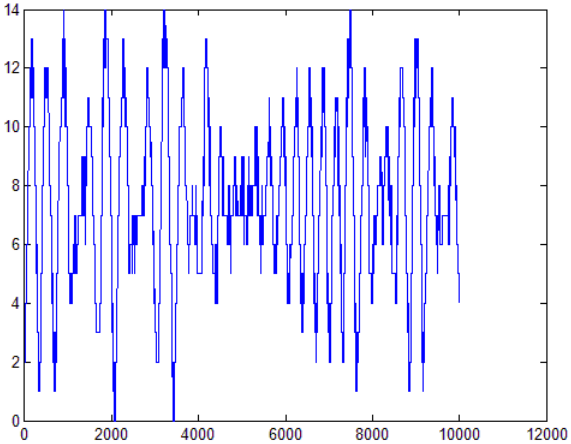
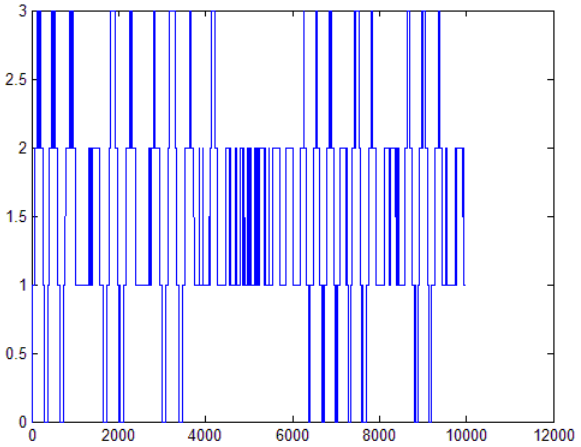


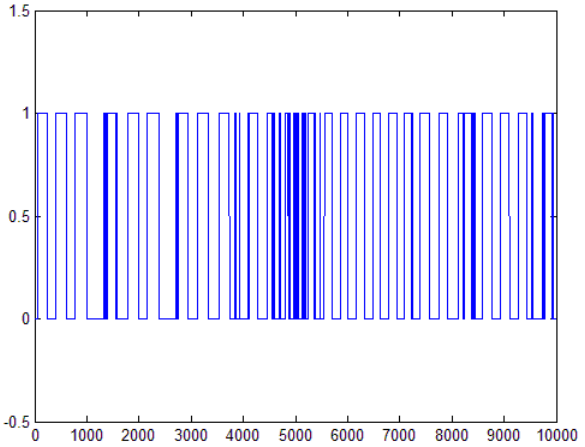
Coarsening the Measurements



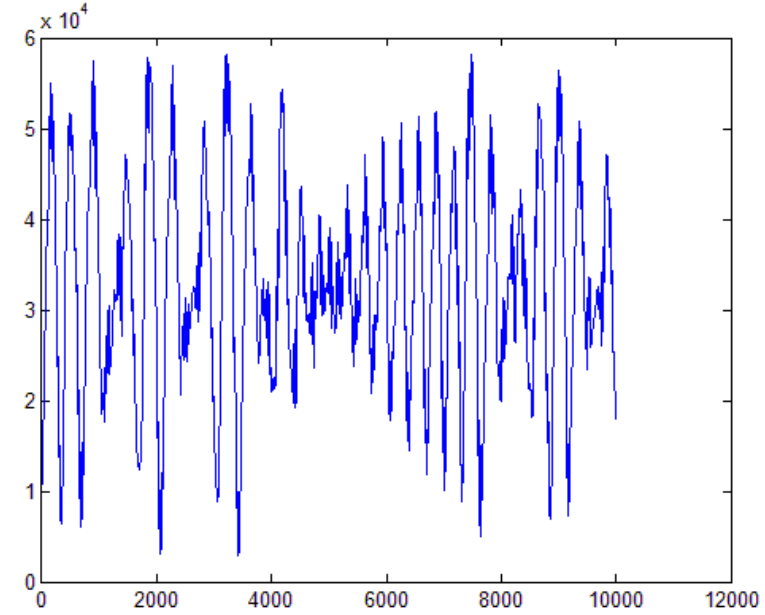


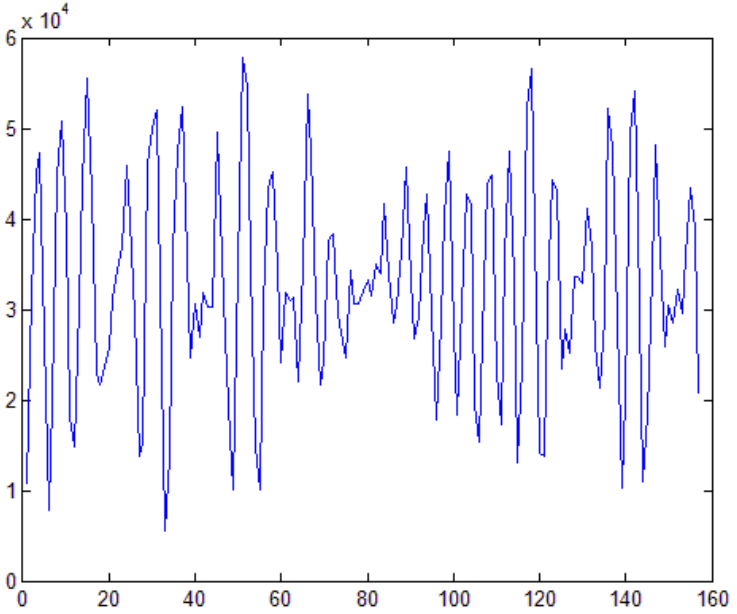


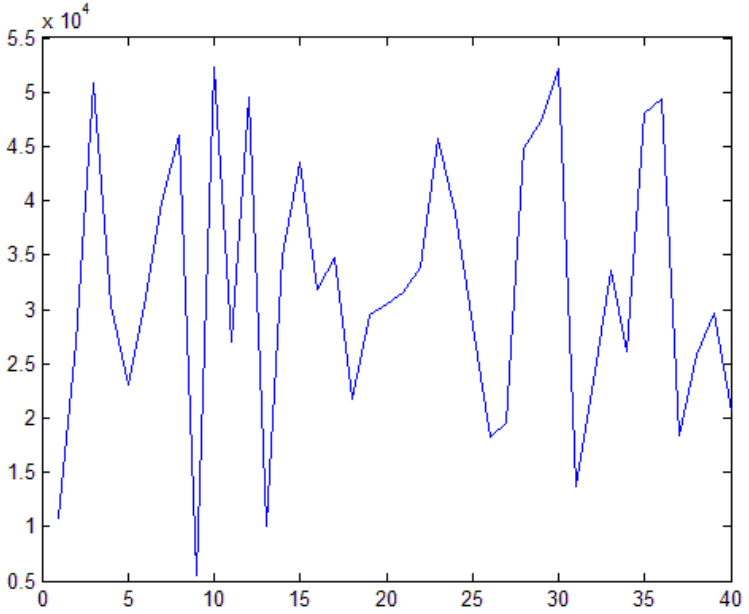


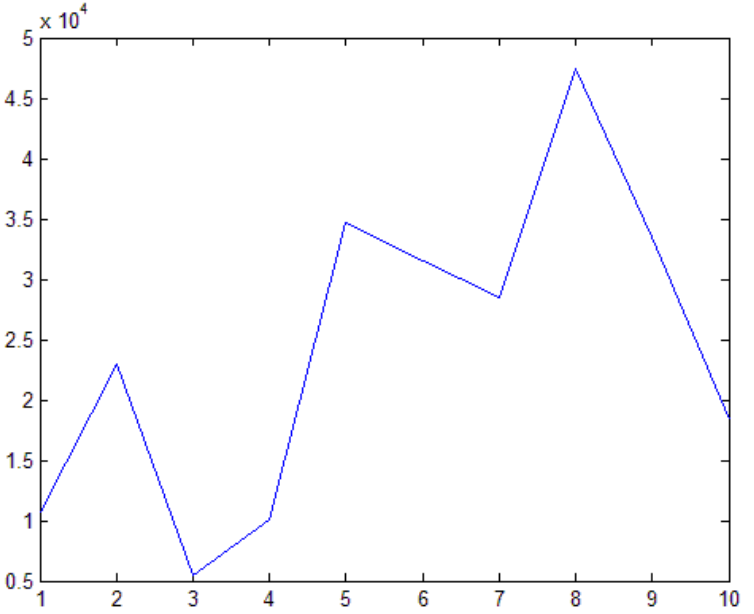


Decreasing the Measuring Rate



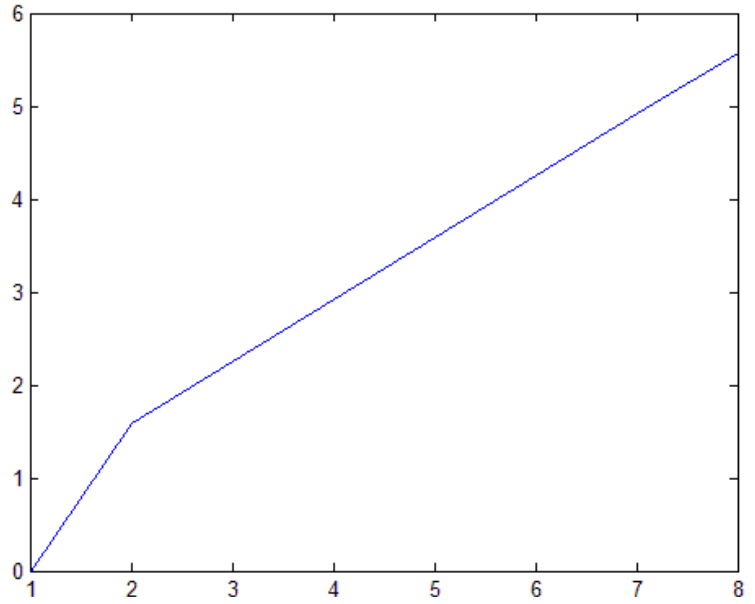




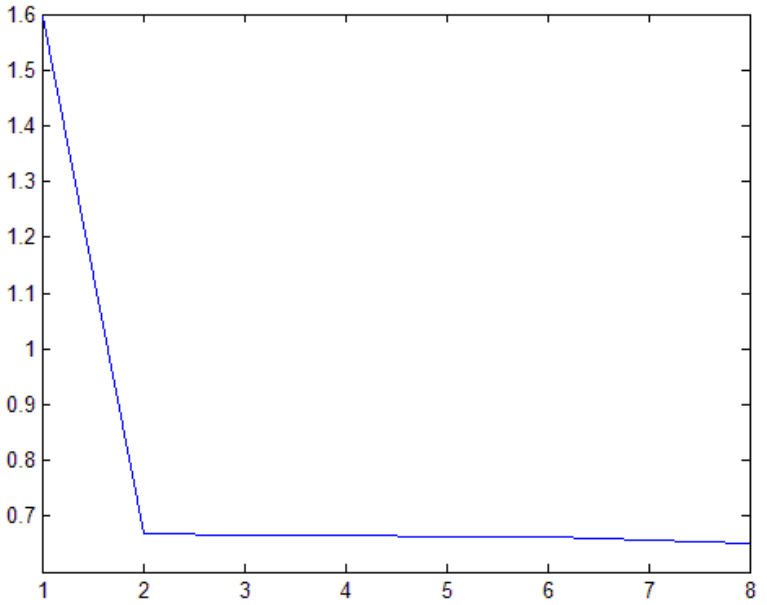


Golden Mean

H(L)

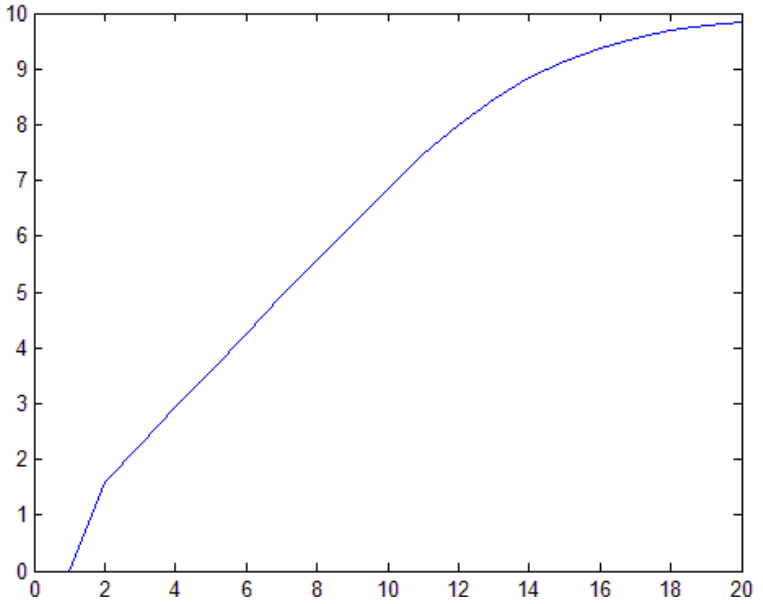


dH(L)



Golden Mean

H(L)



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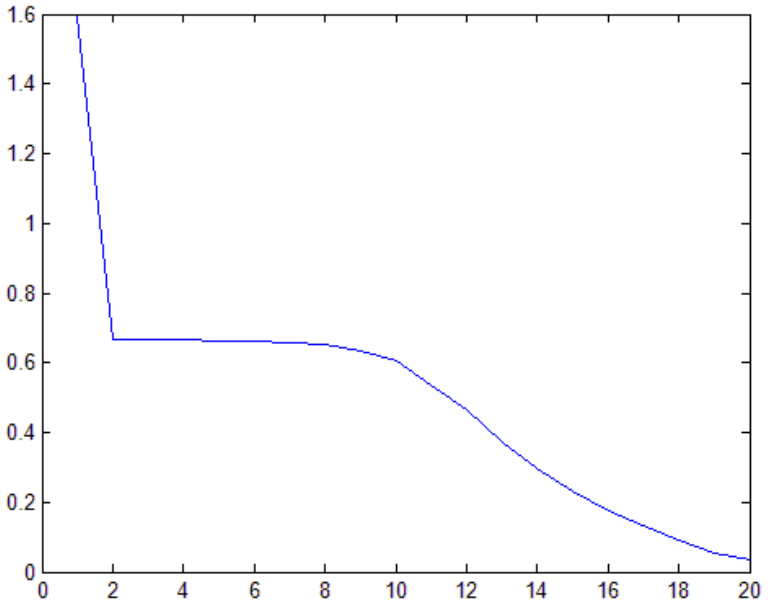
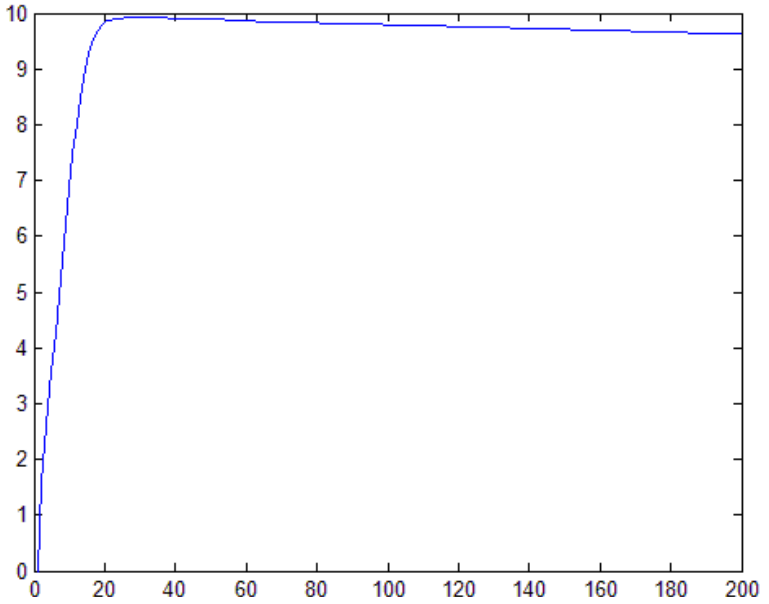


Golden Mean

H(L)



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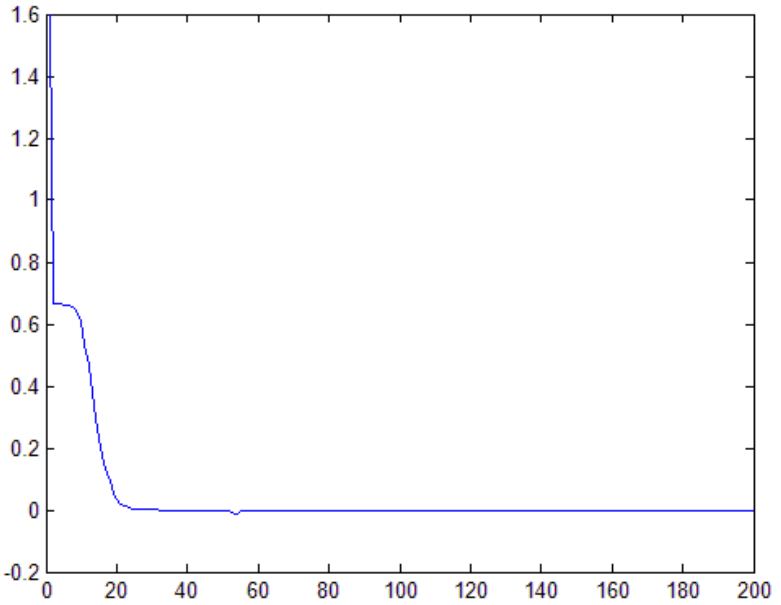
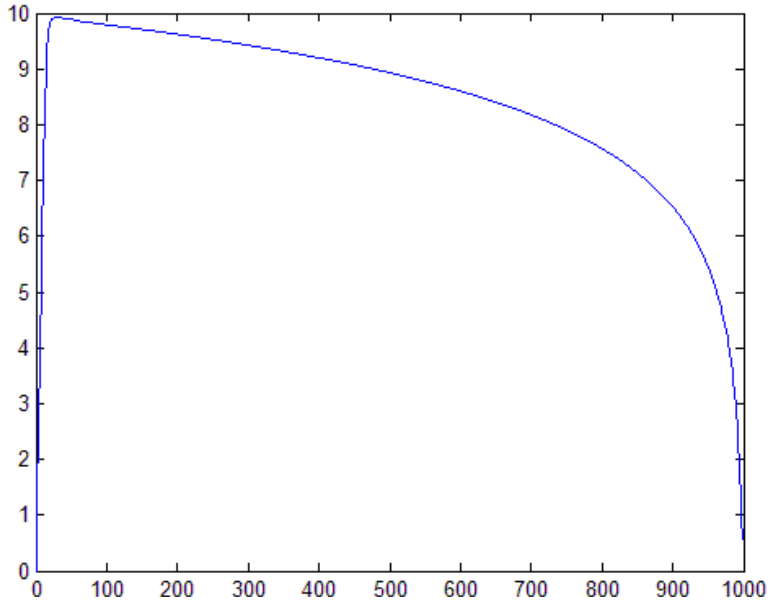
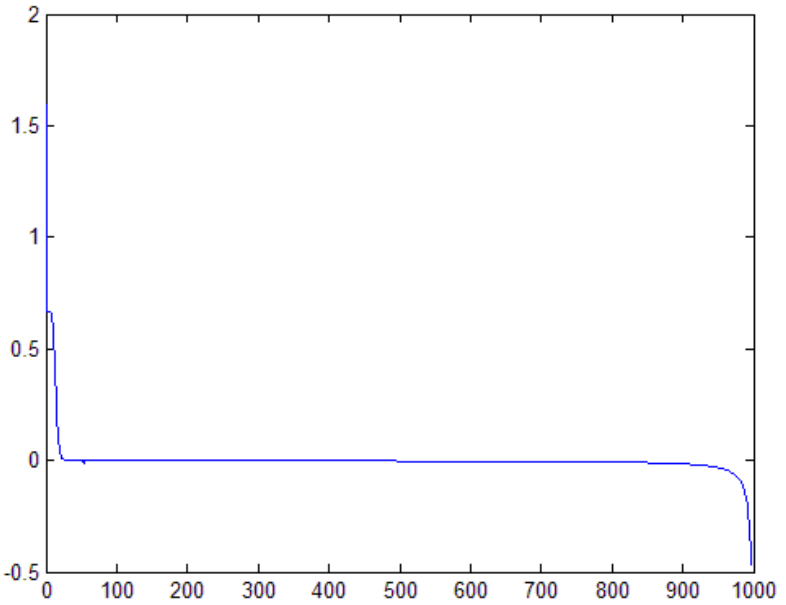


Golden Mean

H(L)

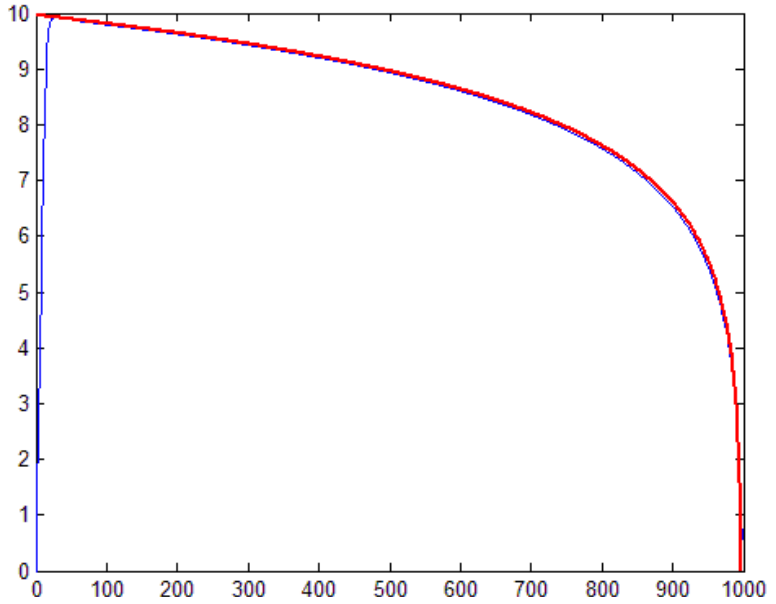


dH(L)

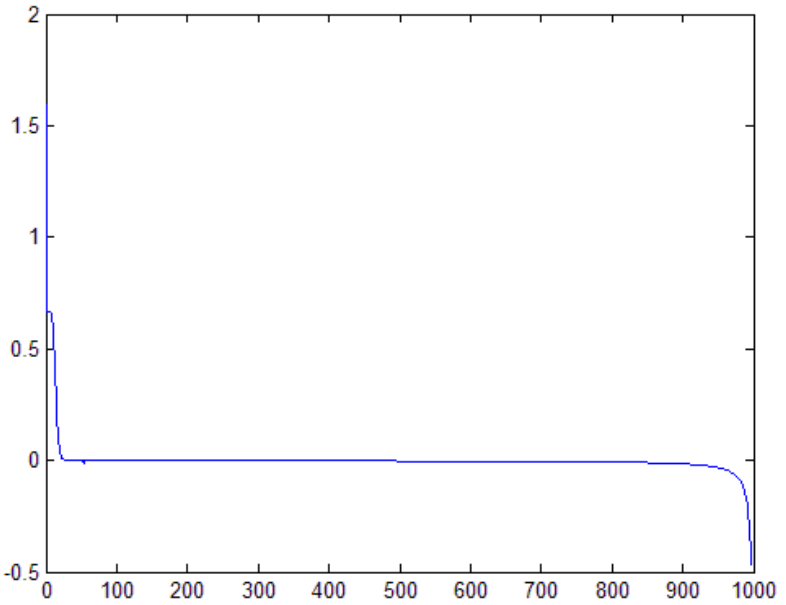


Golden Mean

H(L)

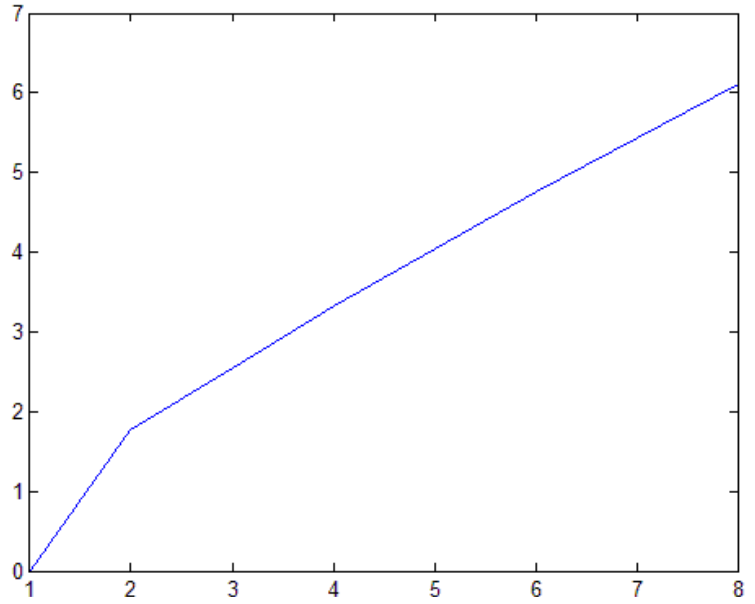


dH(L)



Even Process

H(L)



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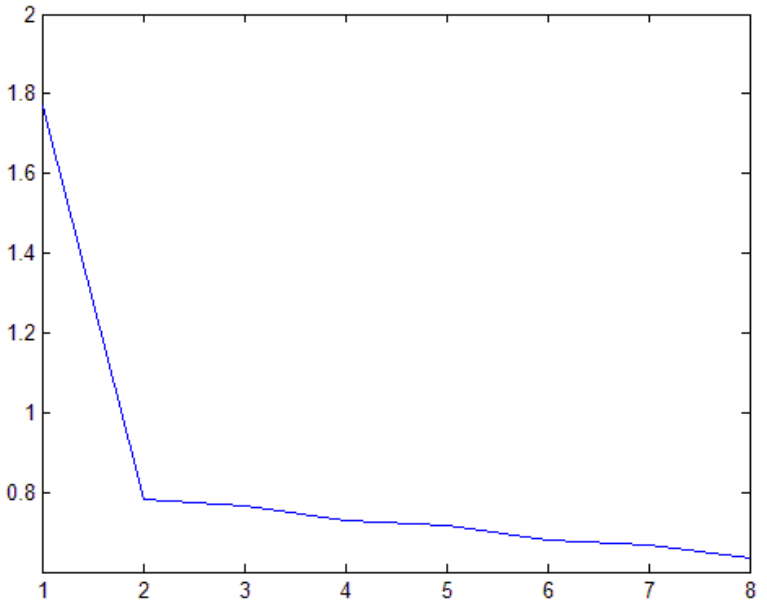
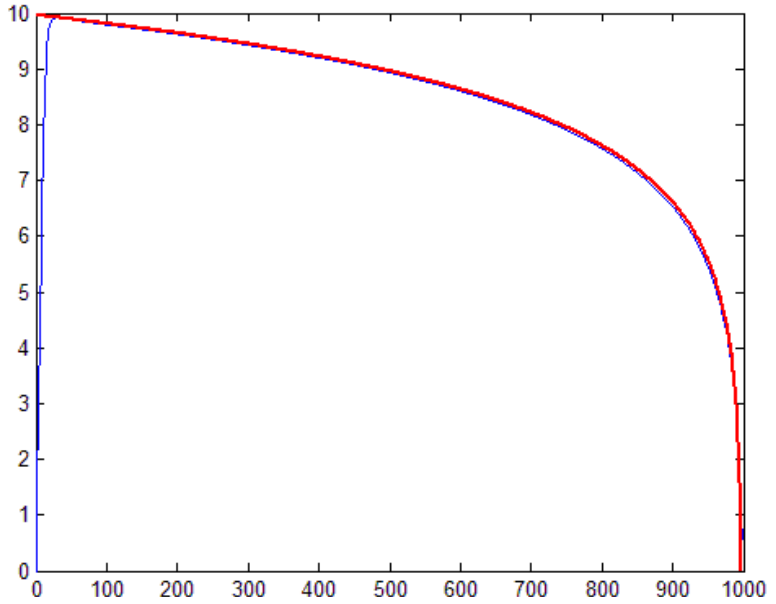


Even Process

H(L)



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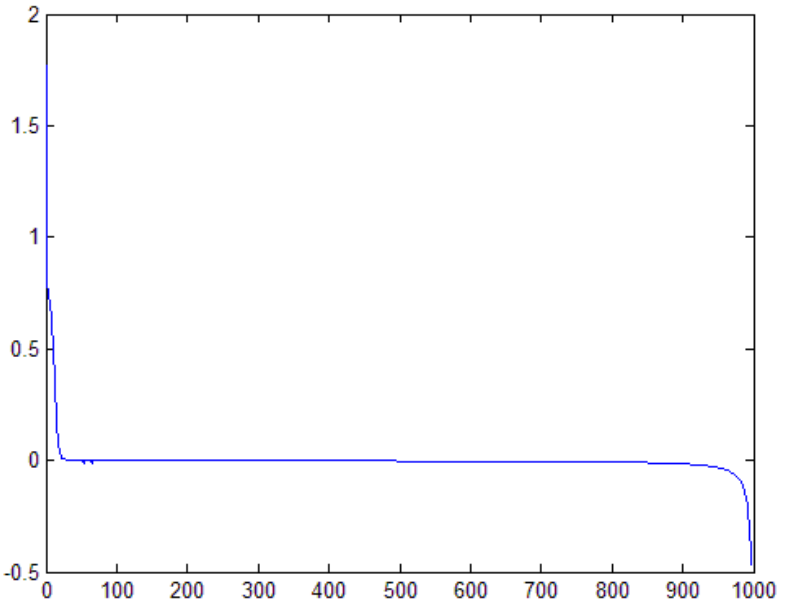

Thanks!