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Statistical Mechanics Entropy, Order Parameters, and Complexity James P. Sethna Laboratory of Atomic and Solid State Physics, Cornell University, Ithaca, NY 14853-2501 The author provides this version of this manuscript with the primary in-tention of making the text accessible electronically—through web searches and for browsing and study on ...

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$SQ/kB = -(N \log N - N) + N \log A - 2$ We divide out one of the N 's and recombine the log to find $u0013 u0012 u0013 u0012 A \log N - 1 A = 1 + \log - -b . SQ/N kB = 1 + \log N 2 N$ where $b= A \log N - 1 \int 2\pi r 2 N 2$ Copyright James P. Sethna 2011 -- Copyright jam f24 Copyright James P. Sethna, 2011.

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