Abstract Submitted
for the MAR08 Meeting of
The American Physical Society

Does mean mean MEAN!? Digits For A Very Long Time Giving Us The Finger!: 1881 Statistics Log-Law was: Quanta=Digits!: BEC; Zipf 1/f-Law; Information-Thy; Random-#s = Euler V Bernoulli; Q-Computing = Arithmetic; P=/=NP SANS Complexity: Euclid 3-Mille

EDWARD SIEGEL

— Classic statistics digits Newcomb[Am.J.Math.4,39,1881]-Weyl[Goett.Nachr.1912]-Benford[Proc.Am.Phil.Soc.78,4,51,1938]("NeWBe")probability ON-AVERAGE/MEAN log-law: <P>=log[1+1/d]=log[(d+1)/d][google:"Benford's-Law";"FUZZYICS": Siegel[AMS Nat.-Mtg.:2002&2008)]; Raimi[Sci.Am.221,109,1969];
Hill[Proc.AMS,123,3,887,1996]=log-base=units=SCALE-INVARIANCE!.
Algebraic-inverse d=1/[eˆ(w)-1]: BOSONS(1924)=DIGITS(<1881): Energy-levels:ground=(d=0),first-(d=1)-excited ,... No fractions; only digit-integer-differences=quanta! Quo vadis digit <P(d=0)>=oo vs. <P(d=1)> <<<oo)?: DIGITS gapFUL BE("NeWBe")C! Siegel[Schroed.Cent.Symp.1987] eˆ(w)-term expansion: d∼1/[[1+w+...]-1]=1/wˆ(1.000...)Zipf-law Pareto power-law decay algebraicity, Siegel[Symp.Fractals,MRS Fall-Mtg.,1989-5!] "FUZZYICS" explains INEVITABILITY via Lawvere-Goguen-Siegel-Baez "CATEGORICAL-SEMANTICS" HYBRID:CATEGORY-THEORY+COGNITIVE-SEMANTICS! Averages dominate physics: expectations,ensemble, time,ANY/ALL experiments!: What if any don't follow digits log-law? Must they always?; Do YOURS?; ALWAYS?; No fluctuations from it allowed?; Never?; Ever?; Never Ever? Ponder long/hard digits' log-law's MEANING for physics/ sciences! Could statistics' "mean" REALLY MEANS "MEAN!"? "Does 'mean' mean "MEAN"!?": "quantum-computing" is/was always alive/well in/since 1881: in <1 + 1 = 2>,... simple-arithmetic!

Edward Siegel

Date submitted: 14 Dec 2007 Electronic form version 1.4