

F 604 Física Estatística

Programa

I- Introdução

II- Do microscópico para o macroscópico

III- Elementos de probabilidade

IV- Revisão de Termodinâmica

V- Descrição estatística de um sistema físico

VI- Ensemble Microcanônico

V- Ensemble Canônico

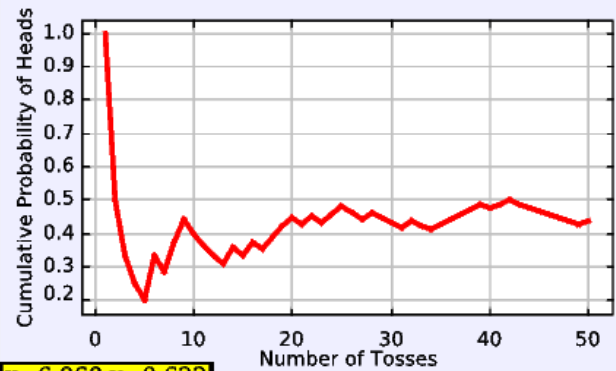
VI- Gás clássico no formalismo canônico

VII- Ensemble Grande Canônico

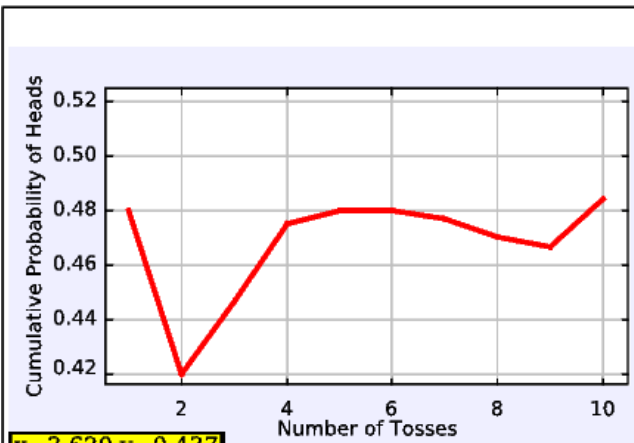
VIII- Gás Ideal Quântico

IX- Gás Ideal de Fermi

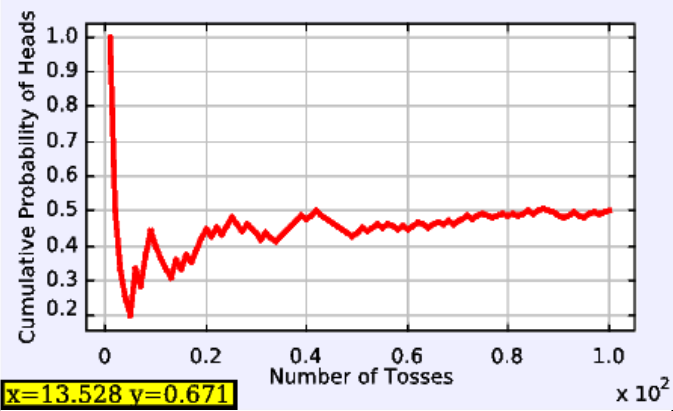
X- Bósons Livres



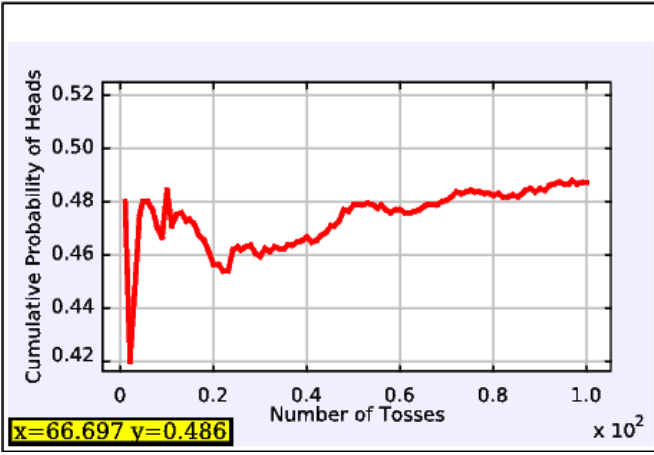
$x=6.868$ $y=0.622$



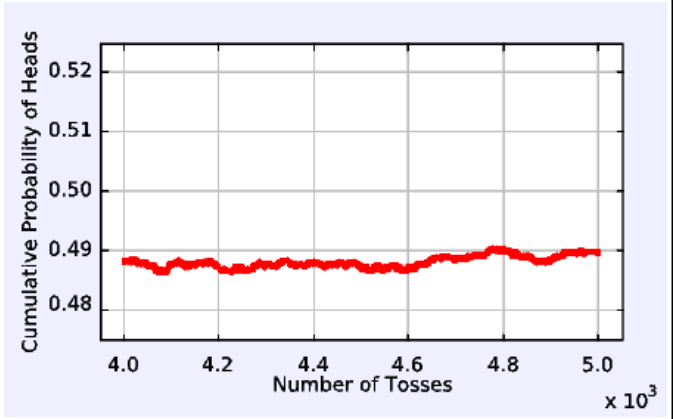
$x=3.620$ $y=0.437$

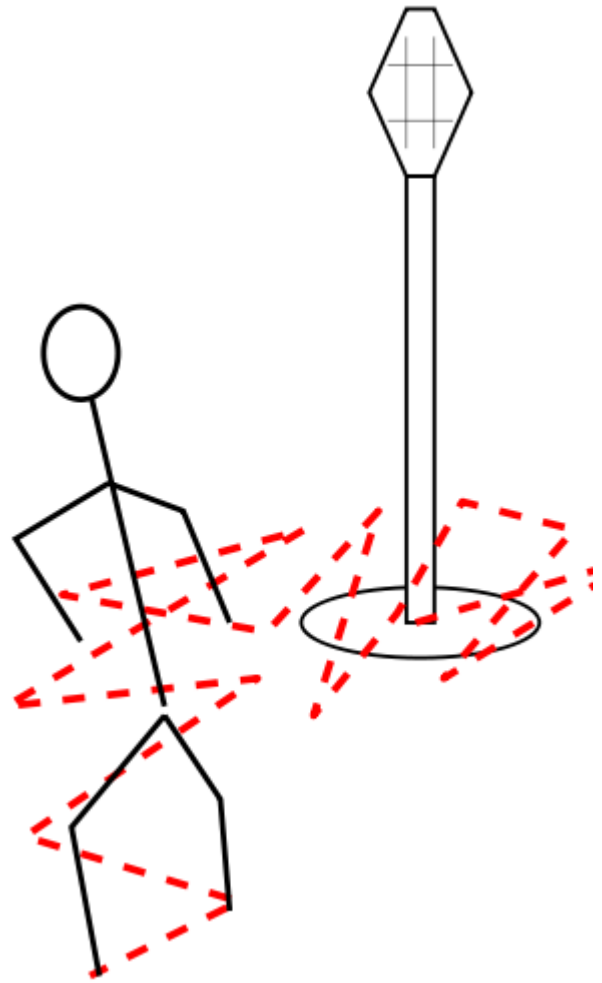
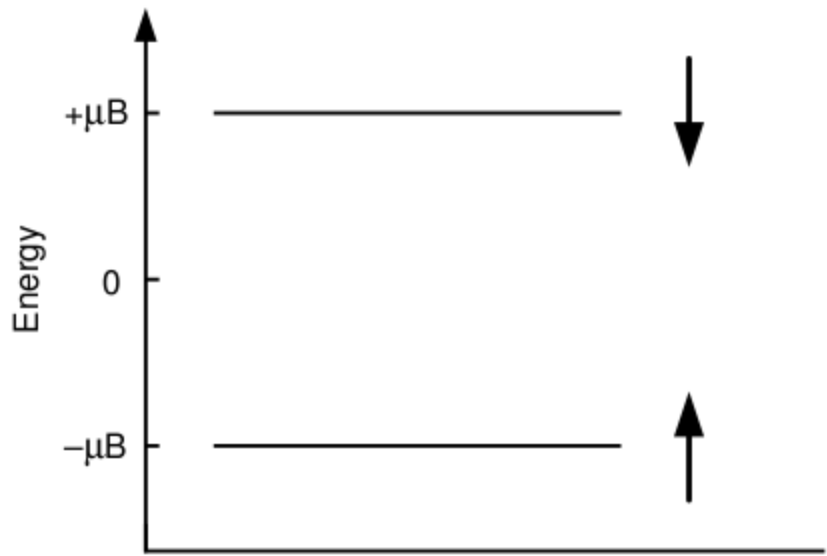


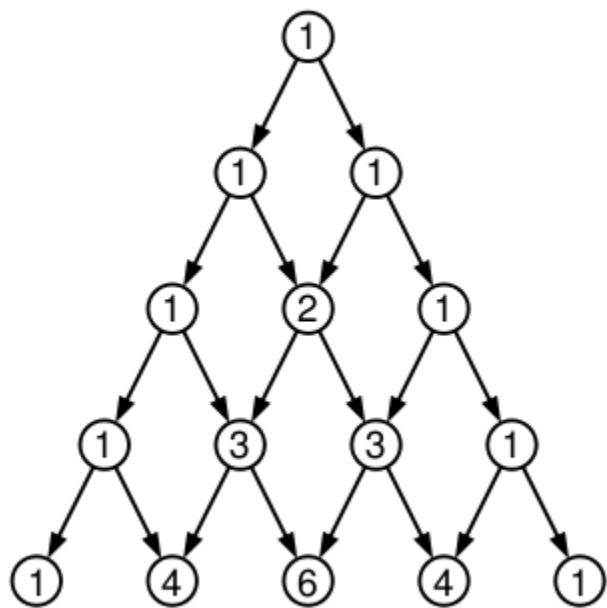
$x=13.528$ $y=0.671$

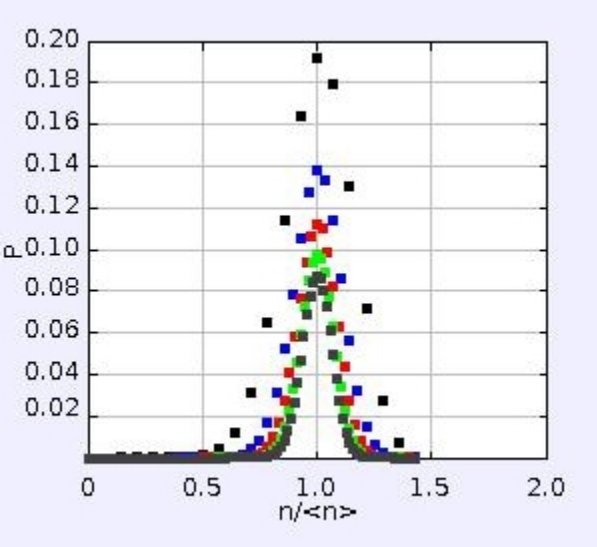
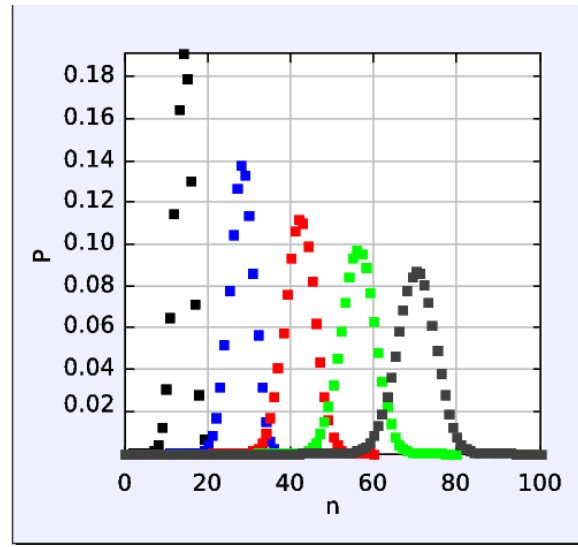
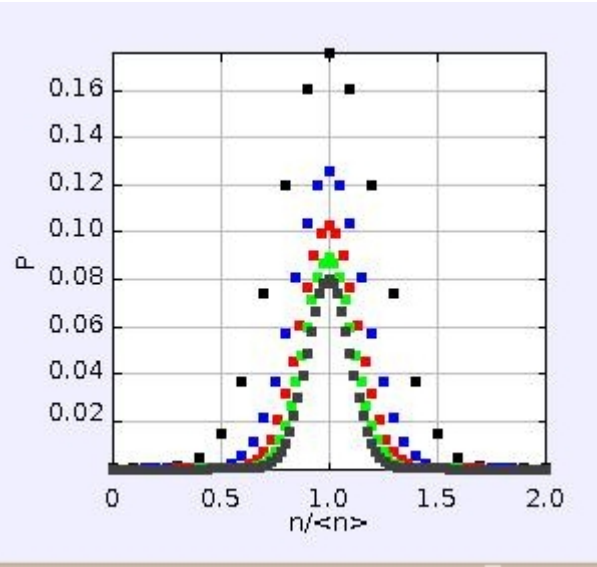
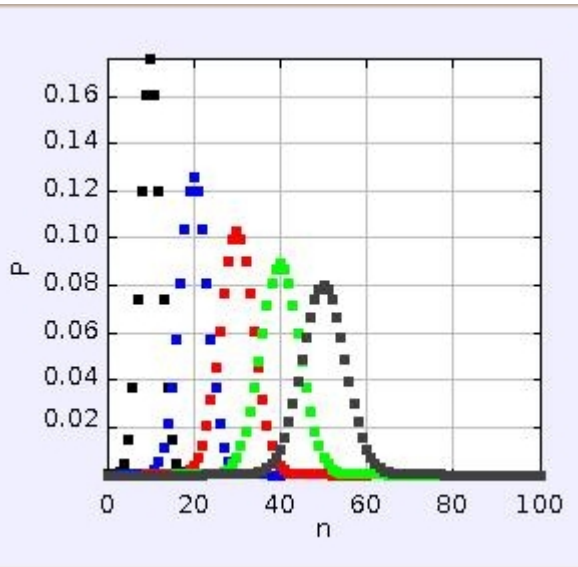


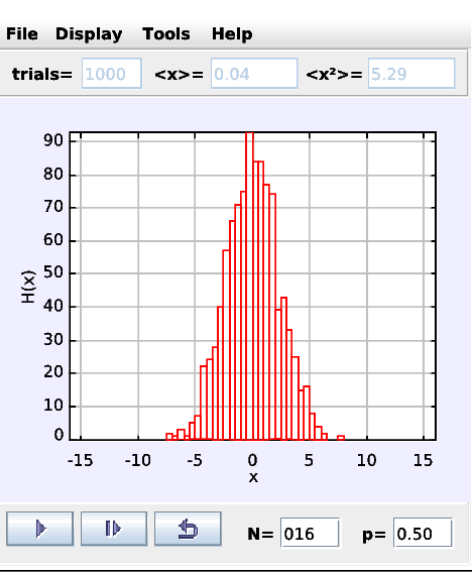
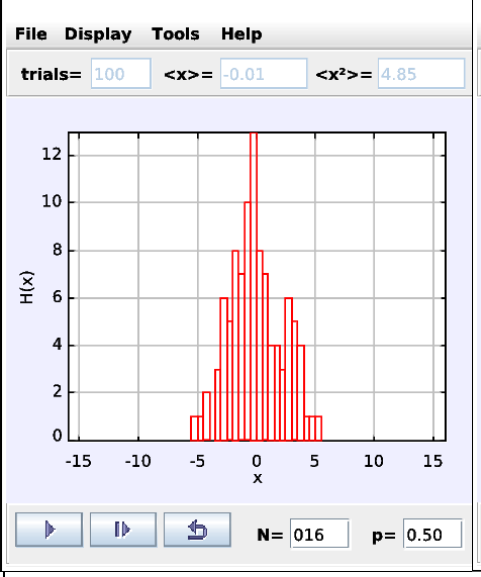
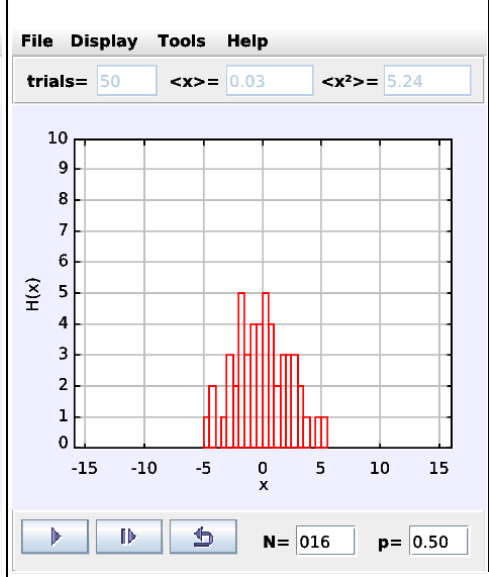
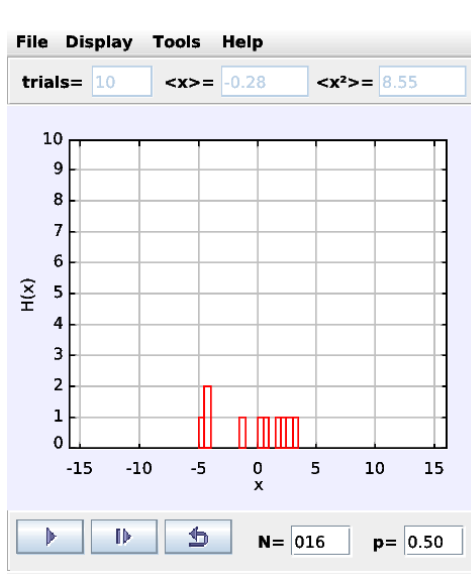
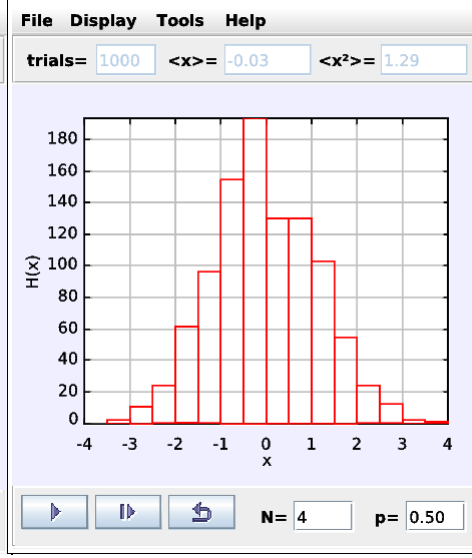
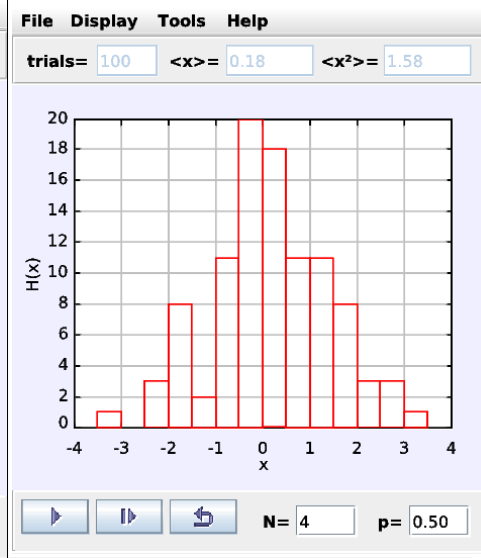
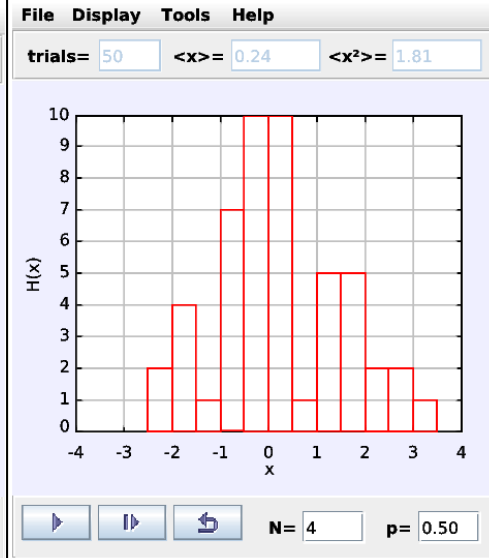
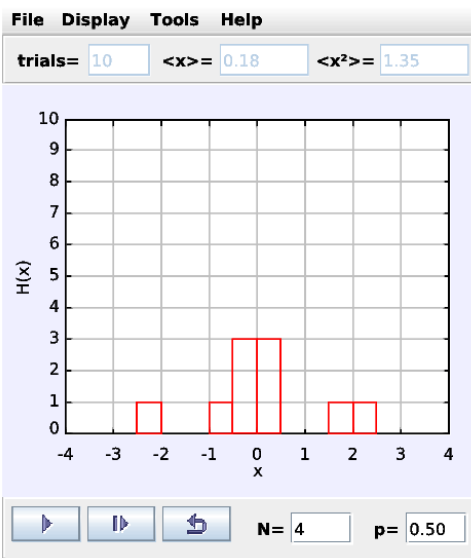
$x=66.697$ $y=0.486$

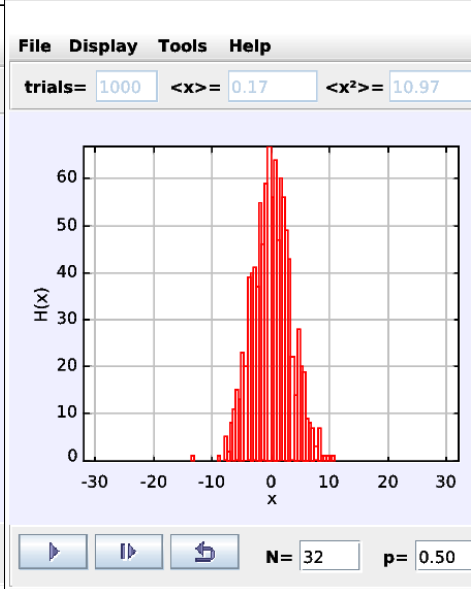
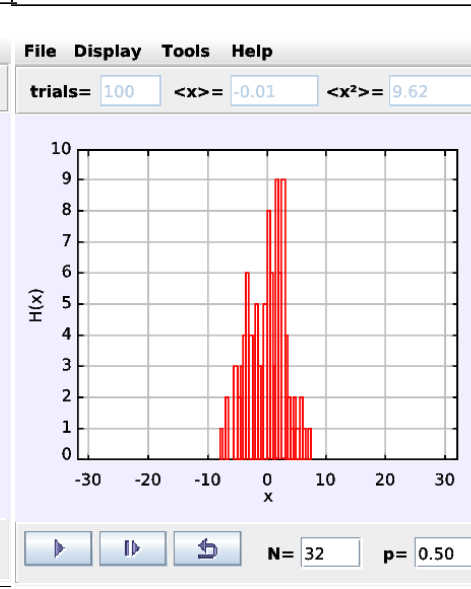
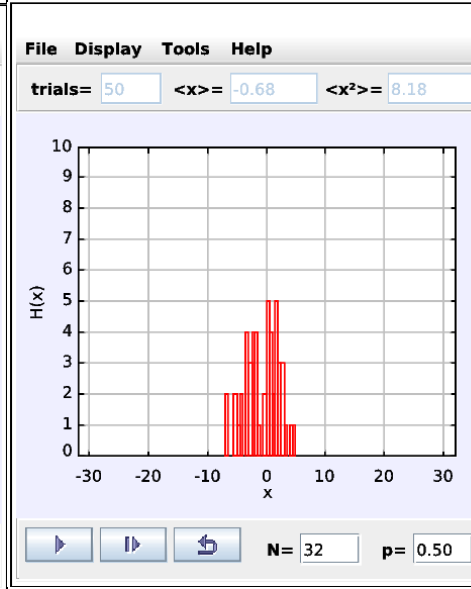
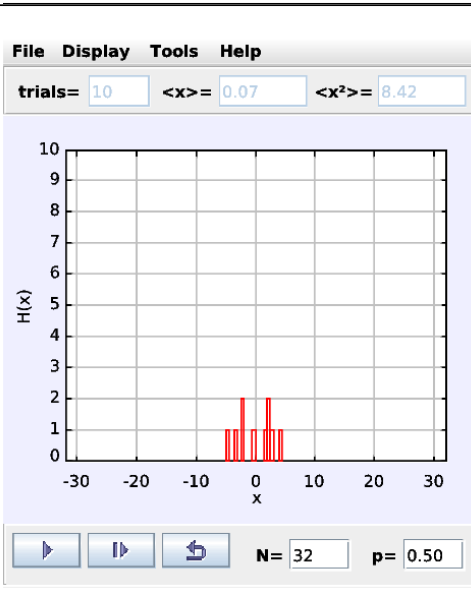
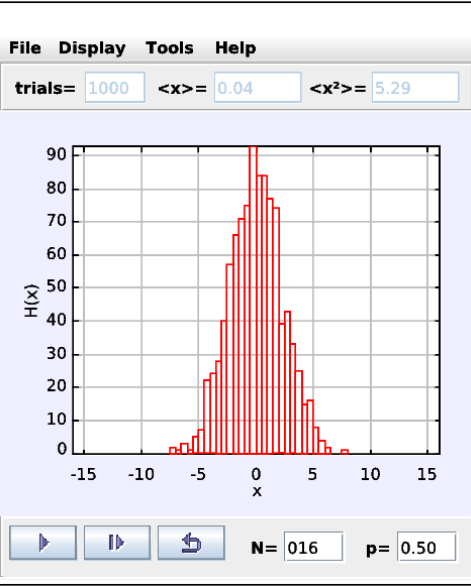
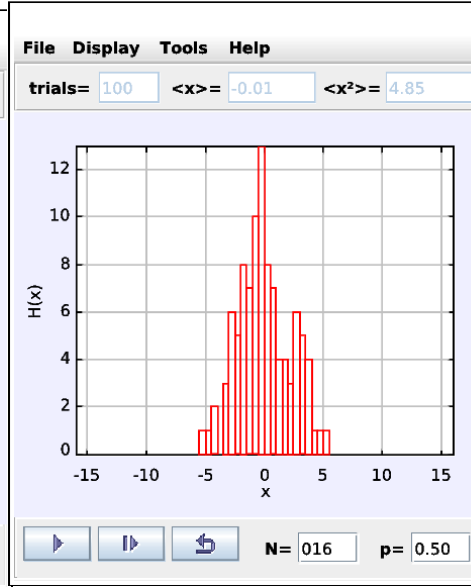
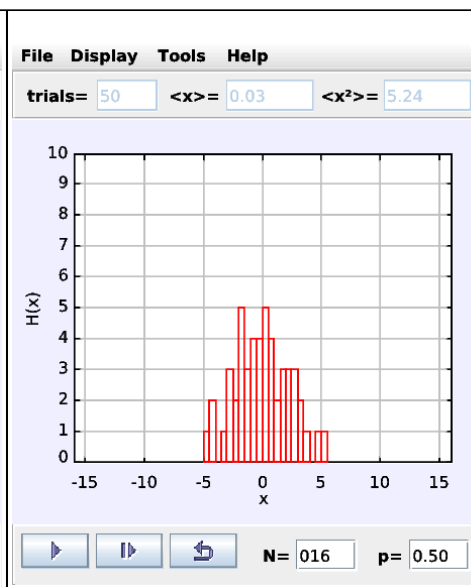
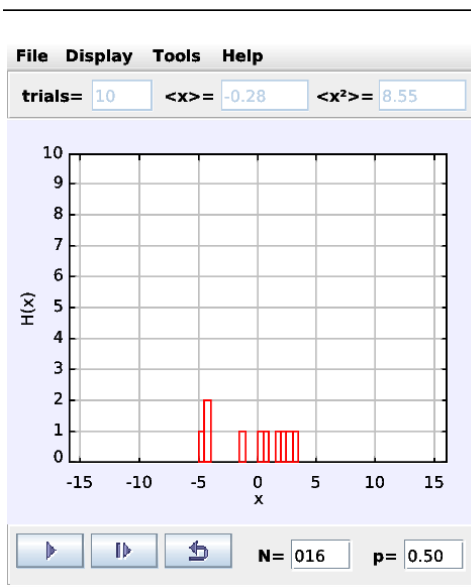


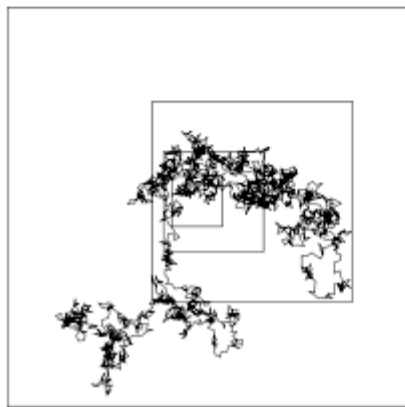
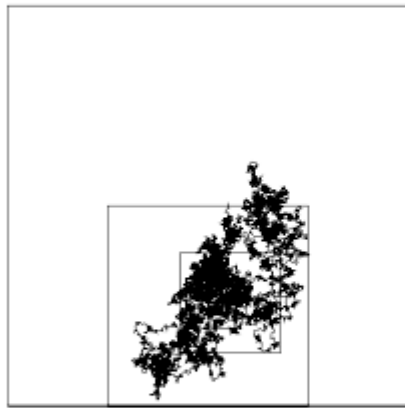
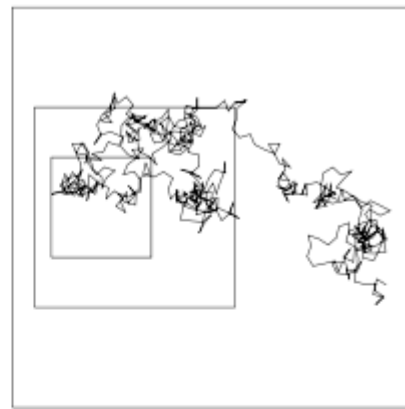
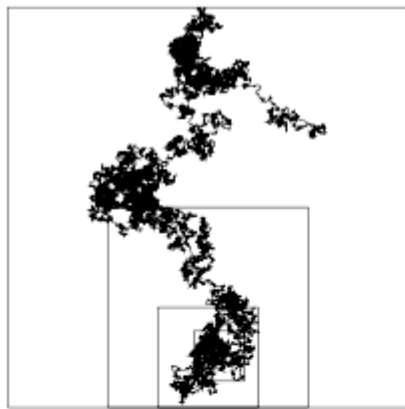




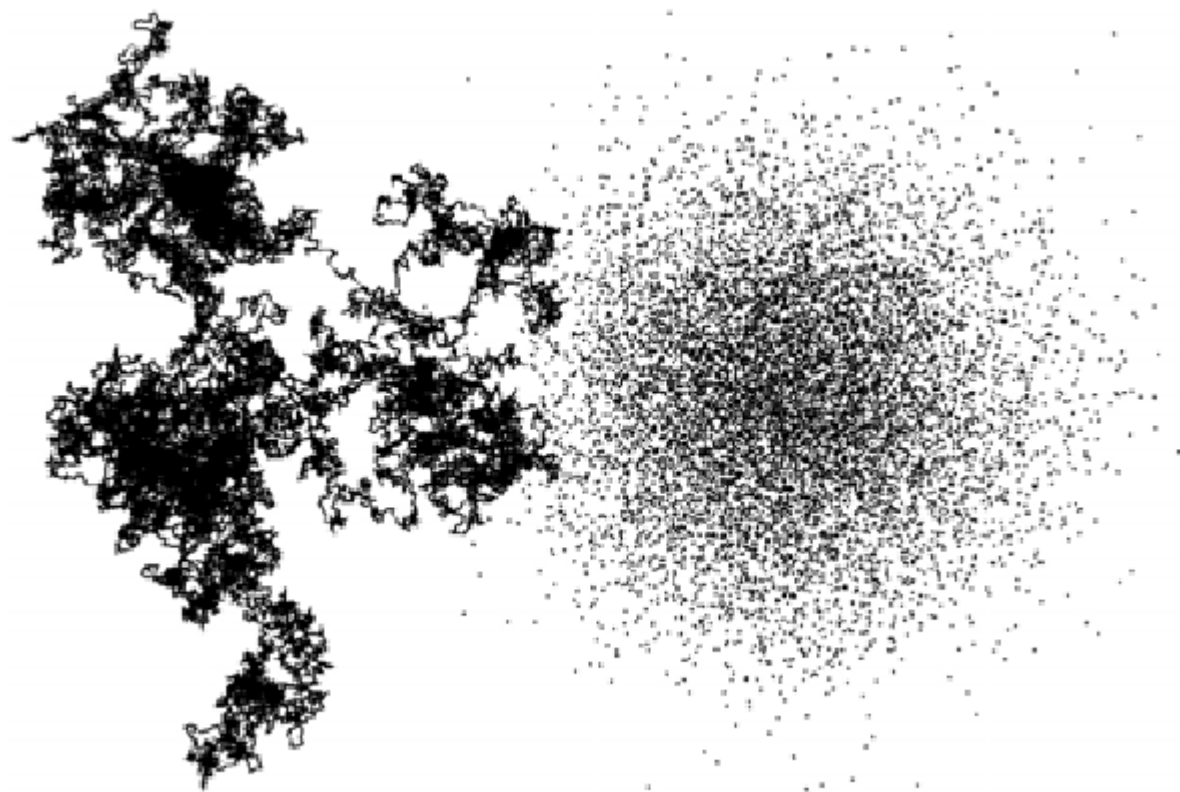




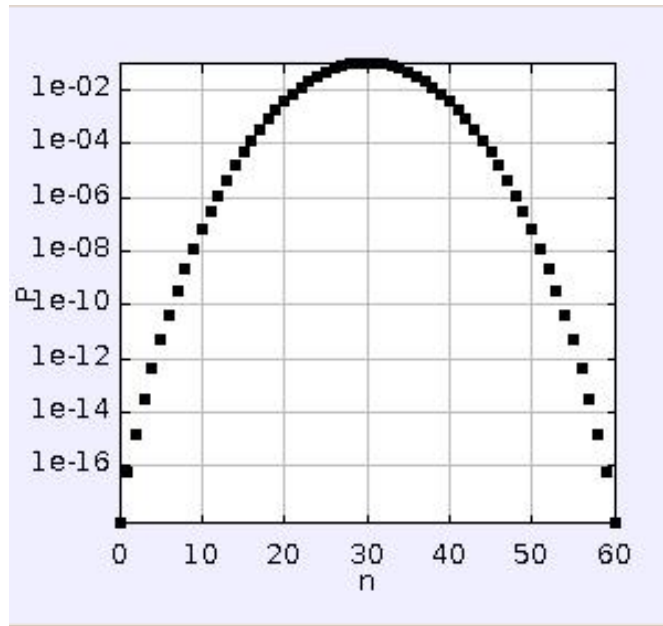




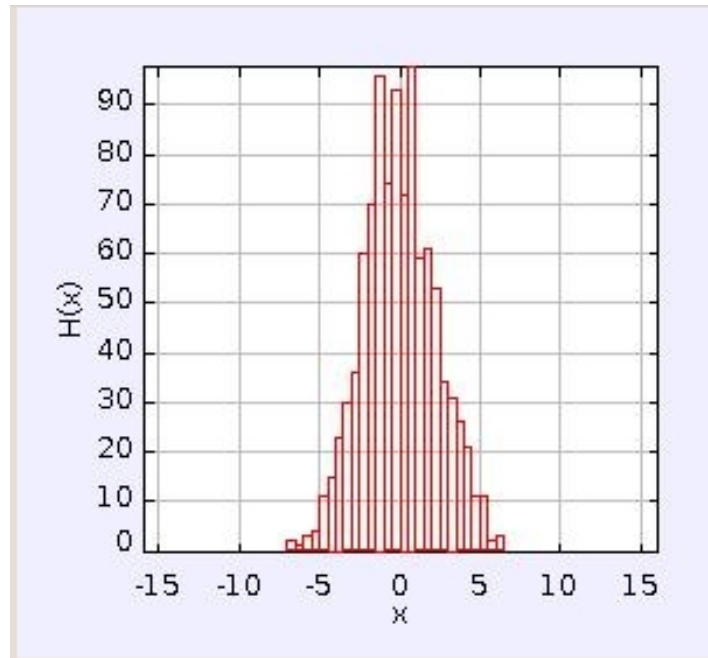
31-32.000 passos



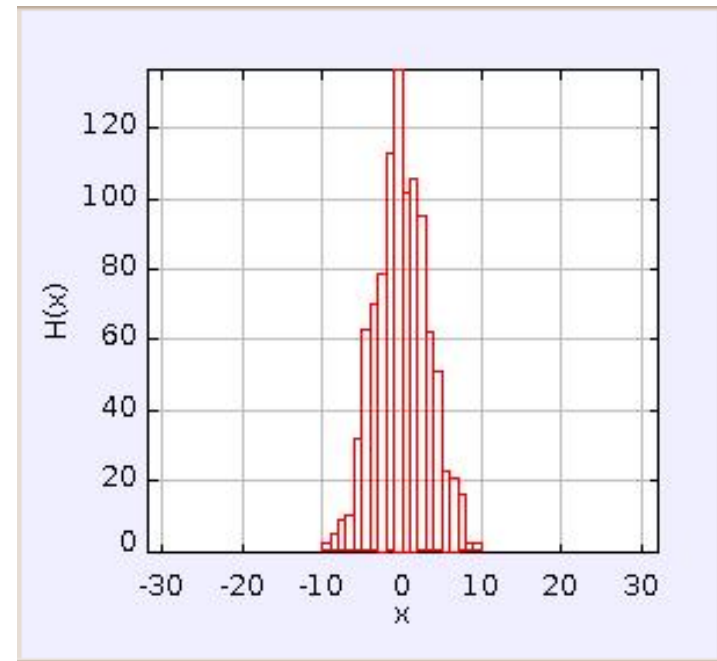
128.000 passos



n	$P_{10}(n)$	Gaussian approximation
0	0.000977	0.001700
1	0.009766	0.010285
2	0.043945	0.041707
3	0.117188	0.113372
4	0.205078	0.206577
5	0.246094	0.252313



$N=16, \Delta x=0,5, M=1000$



$N=32, \Delta x=1,0, M=1000$

