虚数化学ポテンシャル領域でのポリアコフループの振舞い
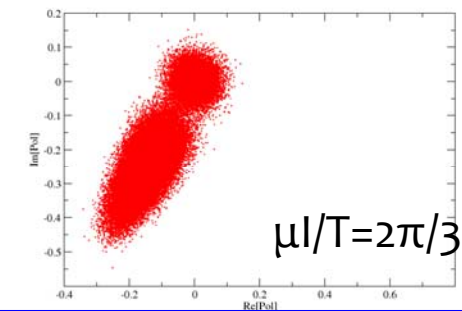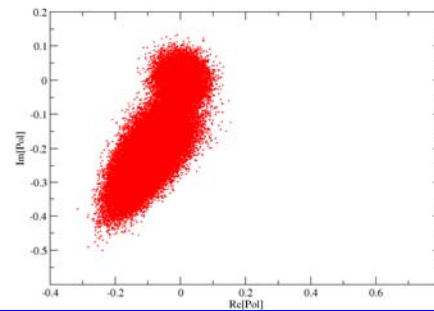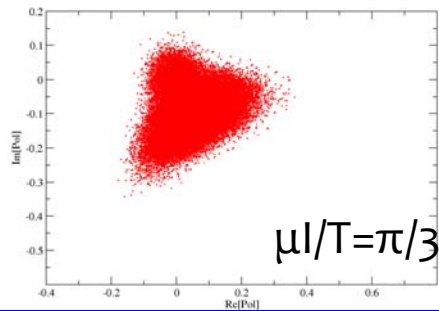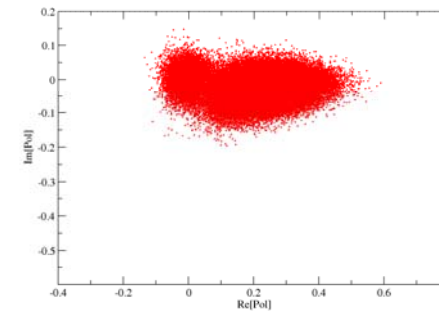
元木伸治、永田桂太郎、中村純

Results

Scatter plot polyakov loop

Results

Scatter plot polyakov loop

$\mu I/T=0$

$\mu I/T=\pi/3$

$\mu I/T=2\pi/3$
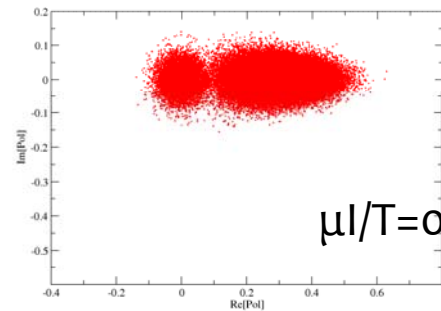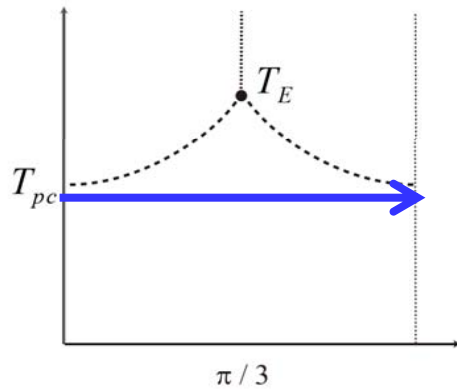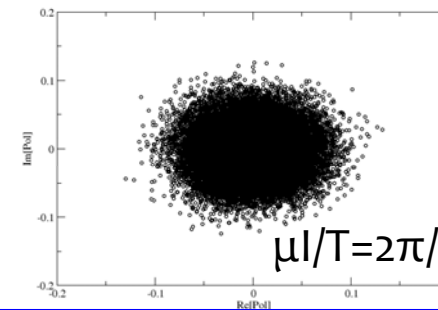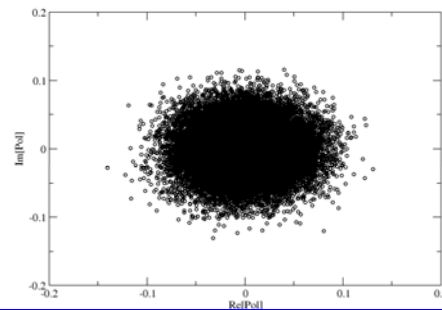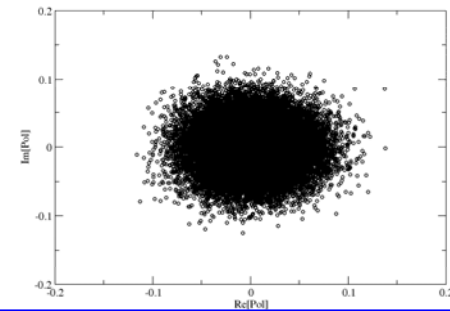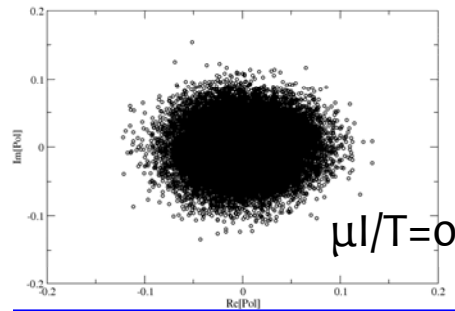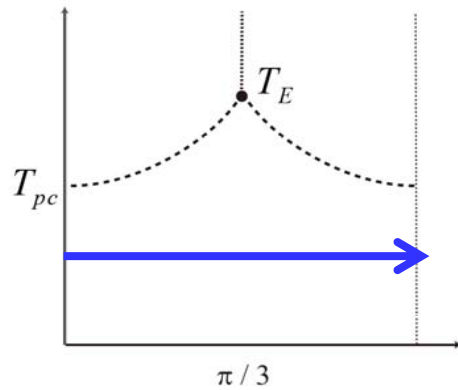
Analytic continuation

$$Z = \sum_n Z_n \xi^n$$
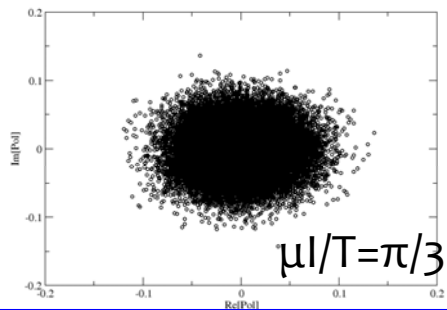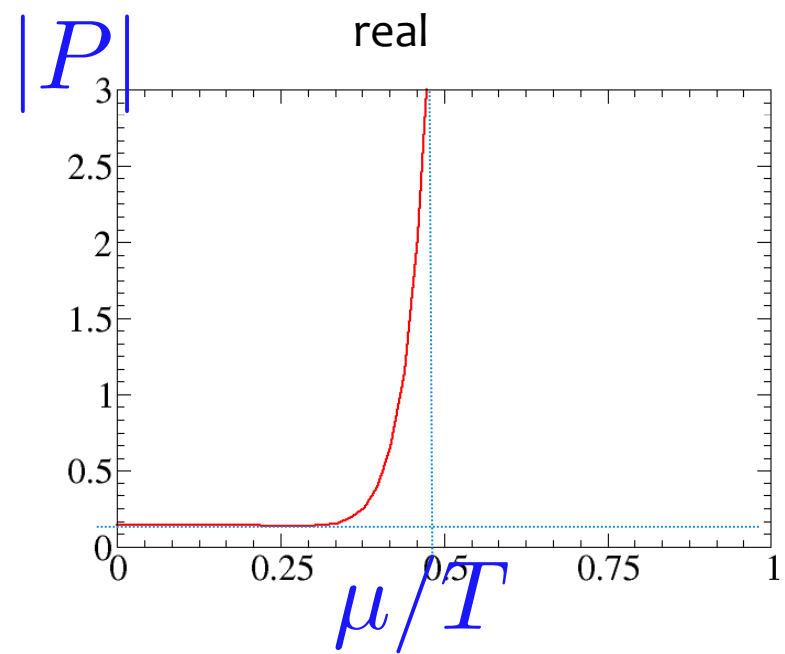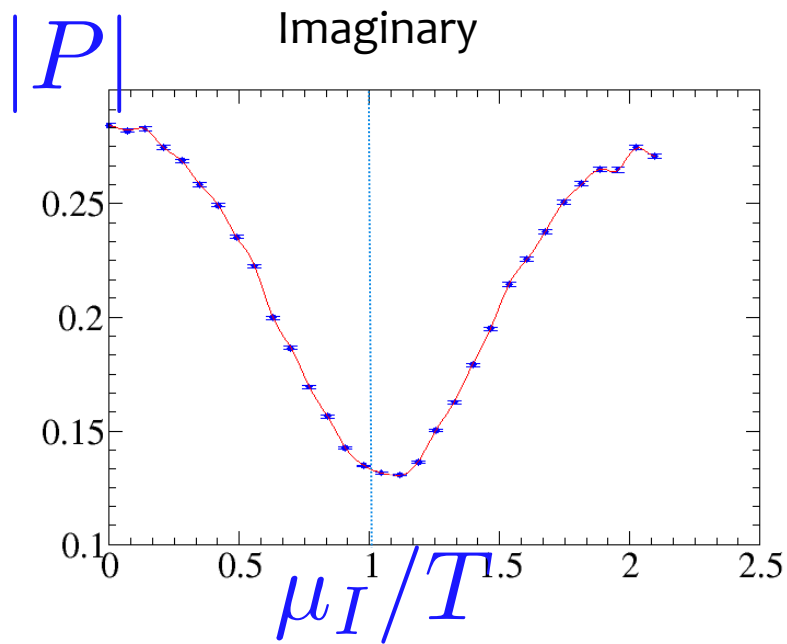
$$\xi \equiv \exp(\mu/T)$$

$$\langle O \rangle = \frac{\int O}{Z} = \frac{\sum_{n'} a_{n'} \xi^n}{\sum_n b_n \xi^n}$$

μI/T vs |P|
Fit and FT

T/Tc=1.0

μI/T vs |P|
Fit and Continuation

T/Tc=0.5

preliminary

Imaginary

$|P|$

real

$|P|$

μ_I/T

μ/T