Skewness

1 R-MAT

Table 1: Graph Info

Tueste II. Grupii Iniie						
	G1					
Graph	V	ΙΕΙ	Skew			
G1	2^{20}	300 V	3×10^{8}			
G2	2^{20}	600 V	6×10^{8}			
G3	2^{20}	1000 V	10^{9}			

Table 2: G1/G2 (K = 64)

14010 2: 01/02 (11 01)								
	G1			G2				
METHOD	RF	time/s	Mem/G	RF	time	Mem		
HDRF	21.2	185	0.2	26.3	330	0.2		
CLUGP	15.7	229	0.42	18.1	442	0.41		
2PS-L	20.4	108	0.28	28.5	130	0.37		
S5P	14.3	125	0.18	16.6	201	0.21		

Table 3: G3 (K = 64)

	G1					
METHOD	RF	time/s	Mem/G			
HDRF	30.7	429	0.24			
CLUGP	19.6	577	0.43			
2PS-L	32.4	151	0.38			
S5P	12.01	267	0.24			

2 Detail in R3O3

We can demonstrate our conclusion by proving that Equation (8), when compared to the corresponding expression on the right-hand side, is a monotonically decreasing function with respect to ρ . It can be found that $0<\chi<1$ because it represents the fraction of low-degree vertices. Thus, we can get:

$$0 < 1 - \chi < 1 - (\chi - \frac{i - 1}{|V|}) < 1 - (1 - \chi + \frac{\chi |V| - 1}{|V|}) < 1$$
 (1)

By the properties of the exponential function, we can conclude that the function decreases monotonically with an increase in ρ .