

Graph properties:

Nodes	Edges	Global Clustering Coeff.	Average Cluster Coeff.	Assort. Degree	Assort. Nominal
3774767	16518947	0.0671	0.0757	0.1332	-0.0000

Table 1: Summary of the principal graph properties.

Degree properties:

Min	Max	Mean	Median
1	770	7.9063	6.0000

Table 2: Summary of the principal degree properties.

AIC values:

Network	Geometric D.	Poisson D.	Zeta non-free p	Zeta	Right-Truncated Zeta	Altamann D.	MOEZipf	Negative Binomial	Discrete Weibull
Patents	12542622.8013	19322047.0135	16599620.3711	14875549.7869	14635067.164	12542626.5396	12266814.6879	12706312.3148	12862628.811

Table 3: Values of the AIC.

Δ AIC:

Network	Geometric D.	Poisson D.	Zeta non-free p	Zeta	Right-Truncated Zeta	Altamann D.	MOEZipf	Negative Binomial	Discrete Weibull
Patents	275808.1134	7055232.3256	4332805.6832	2608735.099	2368252.4761	275811.8517	0	439497.6269	595814.1233

Table 4: Values of the Delta AIC.

BIC values:

Network	Geometric D.	Poisson D.	Zeta non-free p	Zeta	Right-Truncated Zeta	Altamann D.	MOEZipf	Negative Binomial	Discrete Weibull
Patents	12542635.3537	19322059.5659	16599620.3711	14875562.3393	14635092.2687	12542651.6443	12266839.7926	12706337.4195	12862653.915

Table 5: Values of the BIC.

Δ BIC:

Network	Geometric D.	Poisson D.	Zeta non-free p	Zeta	Right-Truncated Zeta	Altamann D.	MOEZipf	Negative Binomial	Discrete Weibull
Patents	275795.5611	7055219.7733	4332780.5785	2608722.5467	2368252.4761	275811.8517	0	439497.6269	595814.1233

Table 6: Values of the Delta BIC.

Estimated parameters:

Network	q	lambda	gamma.1	gamma.2	K_max	gamma.3	delta	gamma.4	delta.2	gammaNB	pNB	v	p
Patents	0.1265	7.9034	1.4464	1.3417	770	0	0.1352	3.196	119.2639	2.0425	0.7947	1.2565	0.9398

Table 7: Values of the estimated parameters.

Initial plots

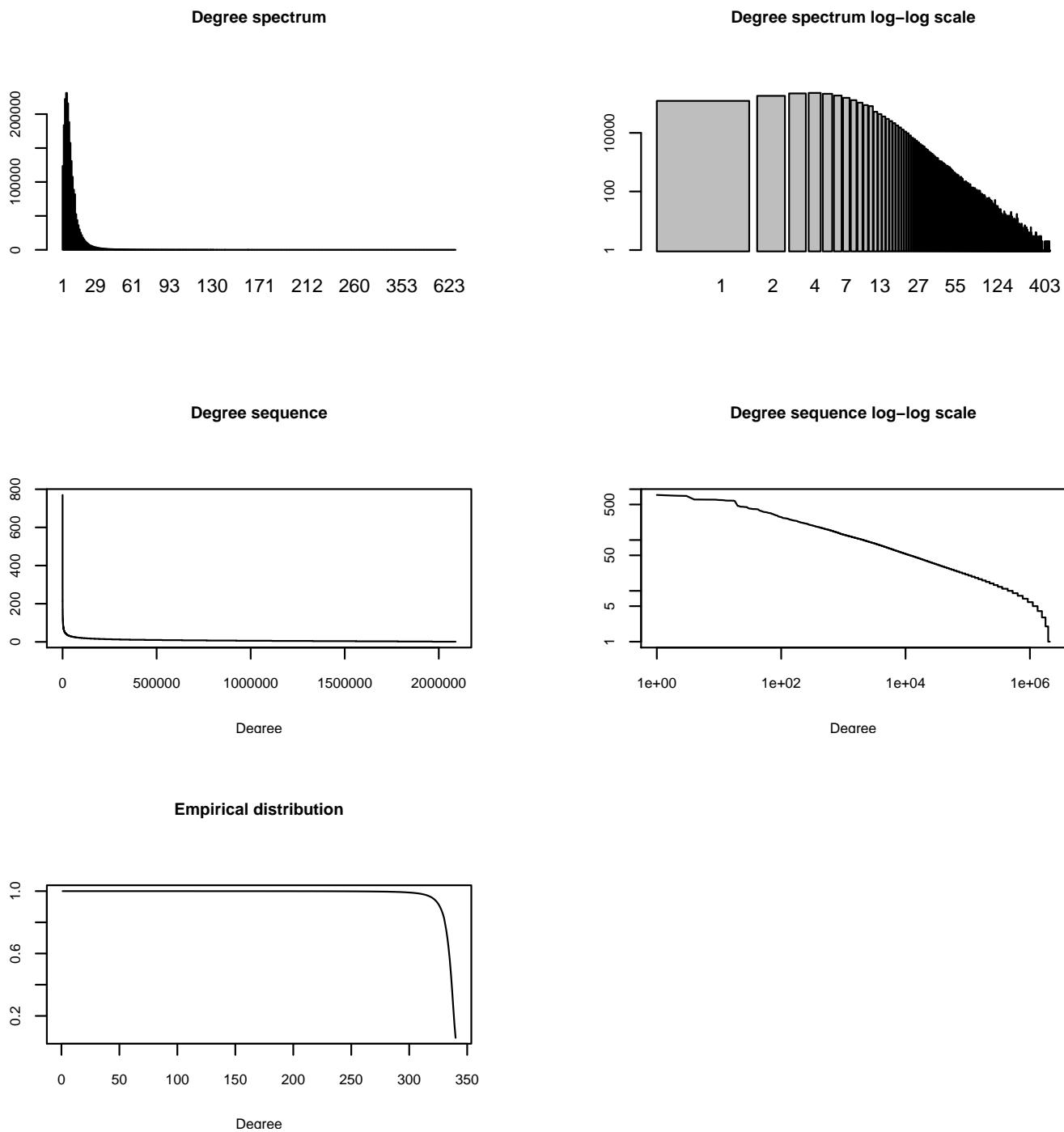


Figure 1: Initial plots.

Fitted model plots:

