

Graph properties:

Nodes	Edges	Global Clustering Coeff.	Average Cluster Coeff.	Assort. Degree	Assort. Nominal
317080	1049865	0.3064	0.6324	0.2665	-0.0000

Table 1: Summary of the principal graph properties.

Degree properties:

Min	Max	Mean	Median	Variance	Standard Deviation
1	306	5.5515	2.0000	94.4740	9.7198

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 W
DBLP_co_authorship	990220.7416	2178390.143	996127.835	957936.1556	949892.0888	924180.6518	923925.0716	-	921398.9

Table 3: Values of the AIC.

$\Delta$ AIC:

Network	Geometric D.	Poisson D.	Zeta non-free p	Zeta	Right-Truncated Zeta	Altamann D.	MOEZipf	Negative Binomial	Discrete Weib
DBLP_co_authorship	68821.822	1256991.2234	74728.9154	36537.236	28493.1692	2781.7322	2526.152	-	0

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 W
DBLP_co_authorship	990230.8917	2178400.2931	996127.835	957946.3057	949912.3889	924200.9519	923945.3718	-	921419.3

Table 5: Values of the BIC.

$\Delta$ BIC:

Network	Geometric D.	Poisson D.	Zeta non-free p	Zeta	Right-Truncated Zeta	Altamann D.	MOEZipf	Negative Binomial	Discrete Weib
DBLP_co_authorship	68811.672	1256981.0734	74708.6153	36527.086	28493.1692	2781.7322	2526.1521	-	0

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
DBLP_co_authorship	0.1801	5.5295	1.6485	1.5818	306	1.1175	0.0497	2.2767	4.8613	-	-	0.3881	0.2622

Table 7: Values of the estimated parameters.

## Initial plots

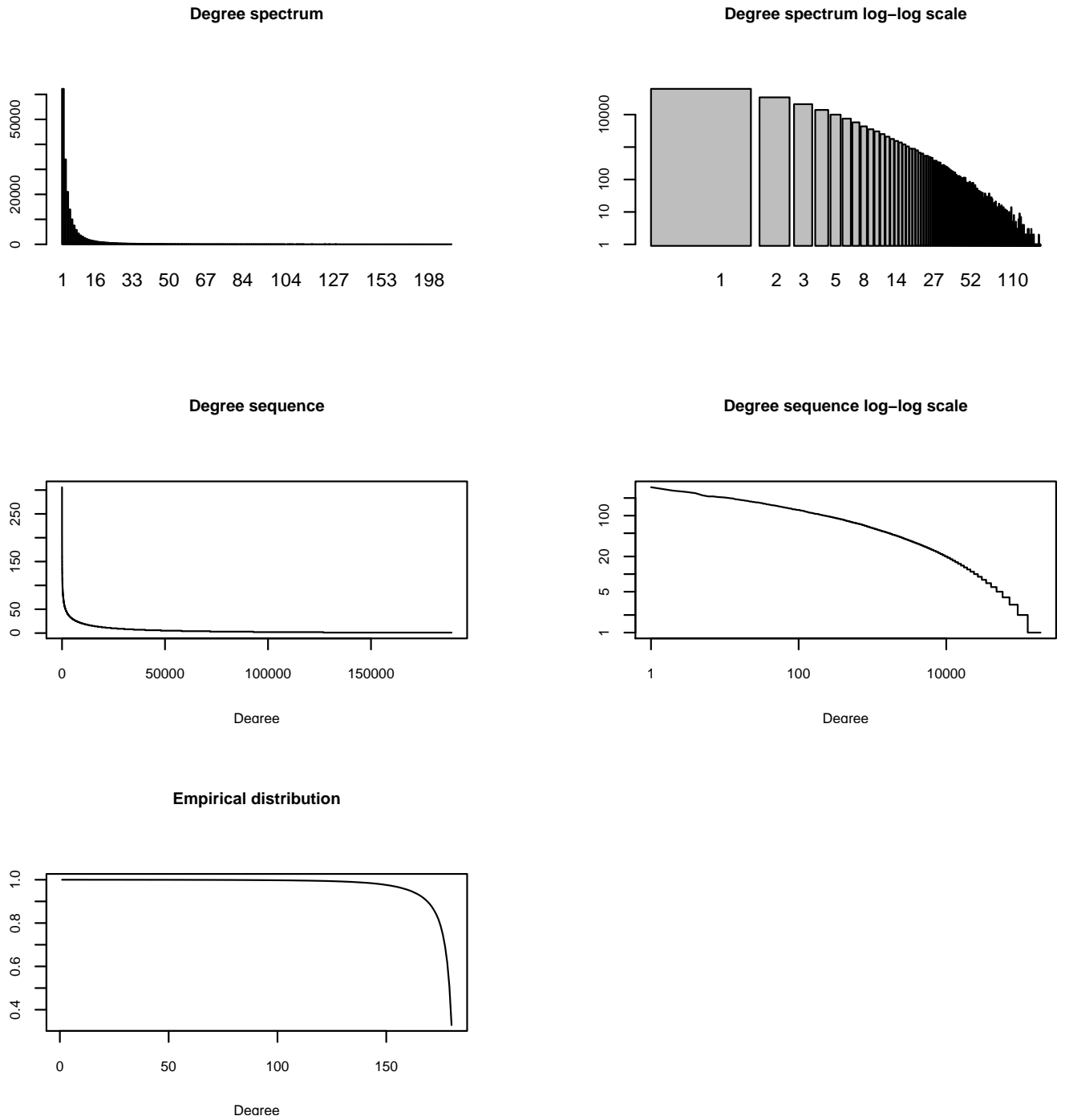


Figure 1: Initial plots.

Fitted model plots:

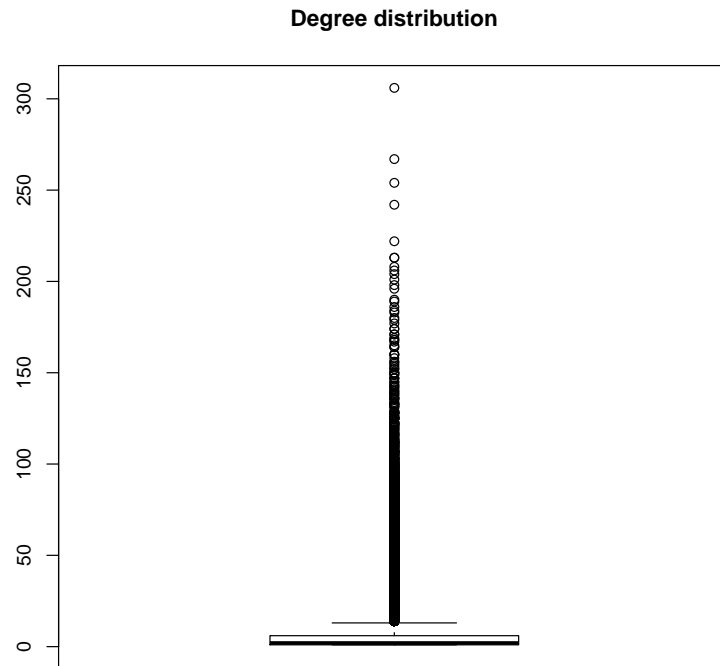


Figure 2: Best Model Fitting the data.

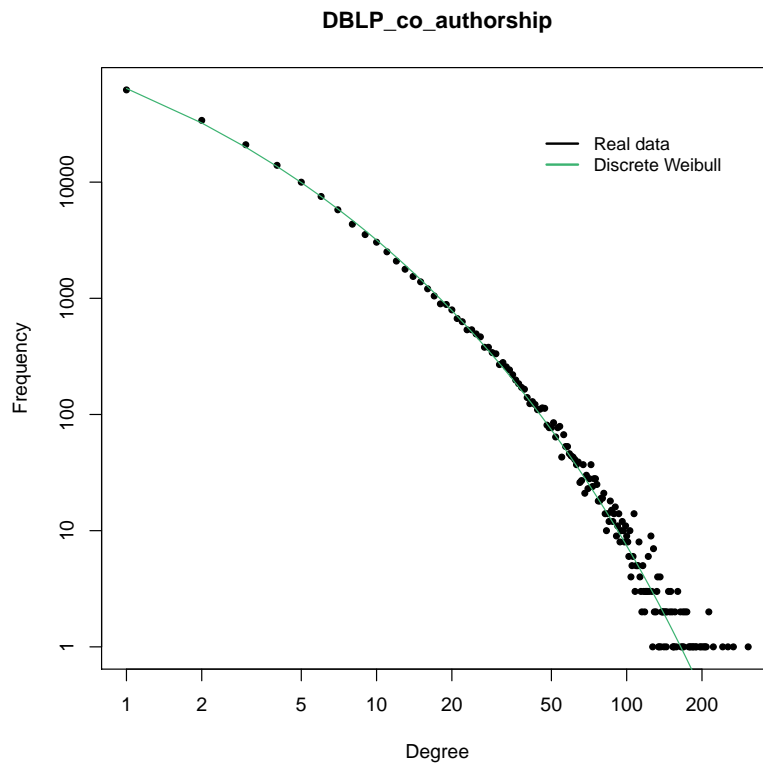


Figure 3: Best Model Fitting the data.

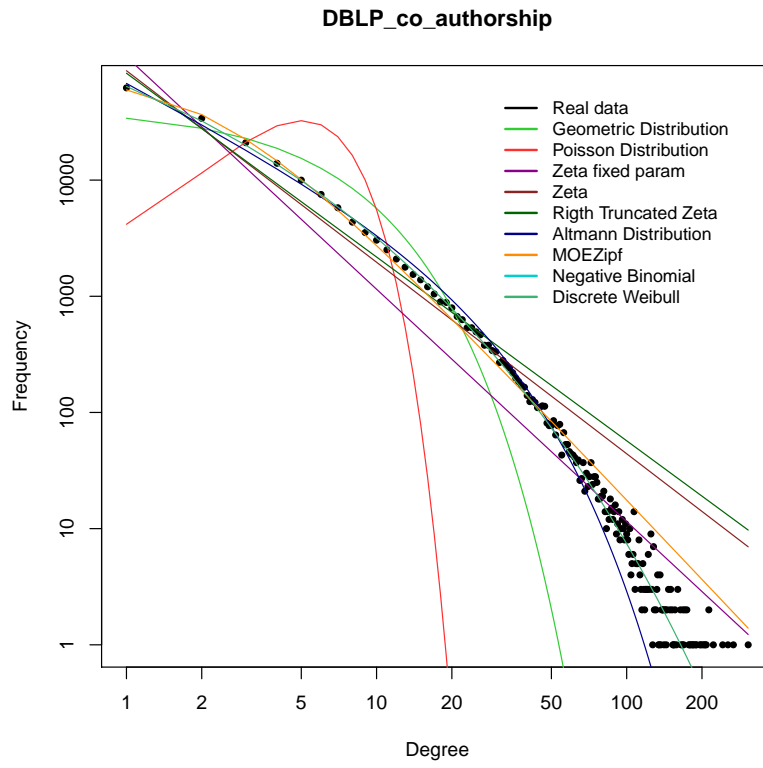


Figure 4: Best Model Fitting the data.