Graph properties:

Nodes	Edges	Global Clustering Coeff.	Average Cluster Coeff.	Assort. Degree	Assort. Nominal
325729	1497133	0.0877	0.2346	-0.0617	0.0183

Table 1: Summary of the principal graph properties.

Degree properties:

Min	Max	Mean	Median
1	3445	10.8534	5.0000

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
NotreDame	920600.618	3492338.6602	1012510.7459	921095.6062	915957.6794	872341.132	849066.2467	940423.9169	930044.3482

Table 3: Values of the AIC.

ΔAIC:

Network	Geometric D.	Poisson D.	Zeta non-free p	Zeta	Right-Truncated Zeta	Altamann D.	MOEZipf	Negative Binomial	Discrete Weibull
NotreDame	71534.3713	2643272.4135	163444.4992	72029.3595	66891.4327	23274.8853	0	91357.6702	80978.1015

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
NotreDame	920610.4526	3492348.4948	1012510.7459	921105.4408	915977.3485	872360.801	849085.9158	940443.586	930064.0172

Table 5: Values of the BIC.

ΔBIC:

Network	Geometric D.	Poisson D.	Zeta non-free p	Zeta	Right-Truncated Zeta	Altamann D.	MOEZipf	Negative Binomial	Discrete Weibull
NotreDame	71524.5368	2643262.579	163424.8301	72019.525	66891.4327	23274.8852	0	91357.6702	80978.1014

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
NotreDame	0.0921	10.8532	1.4799	1.4367	3445	0.8811	0.0313	2.4215	15.6546	0.7677	0.9339	0.8161	0.8545

Table 7: Values of the estimated parameters.

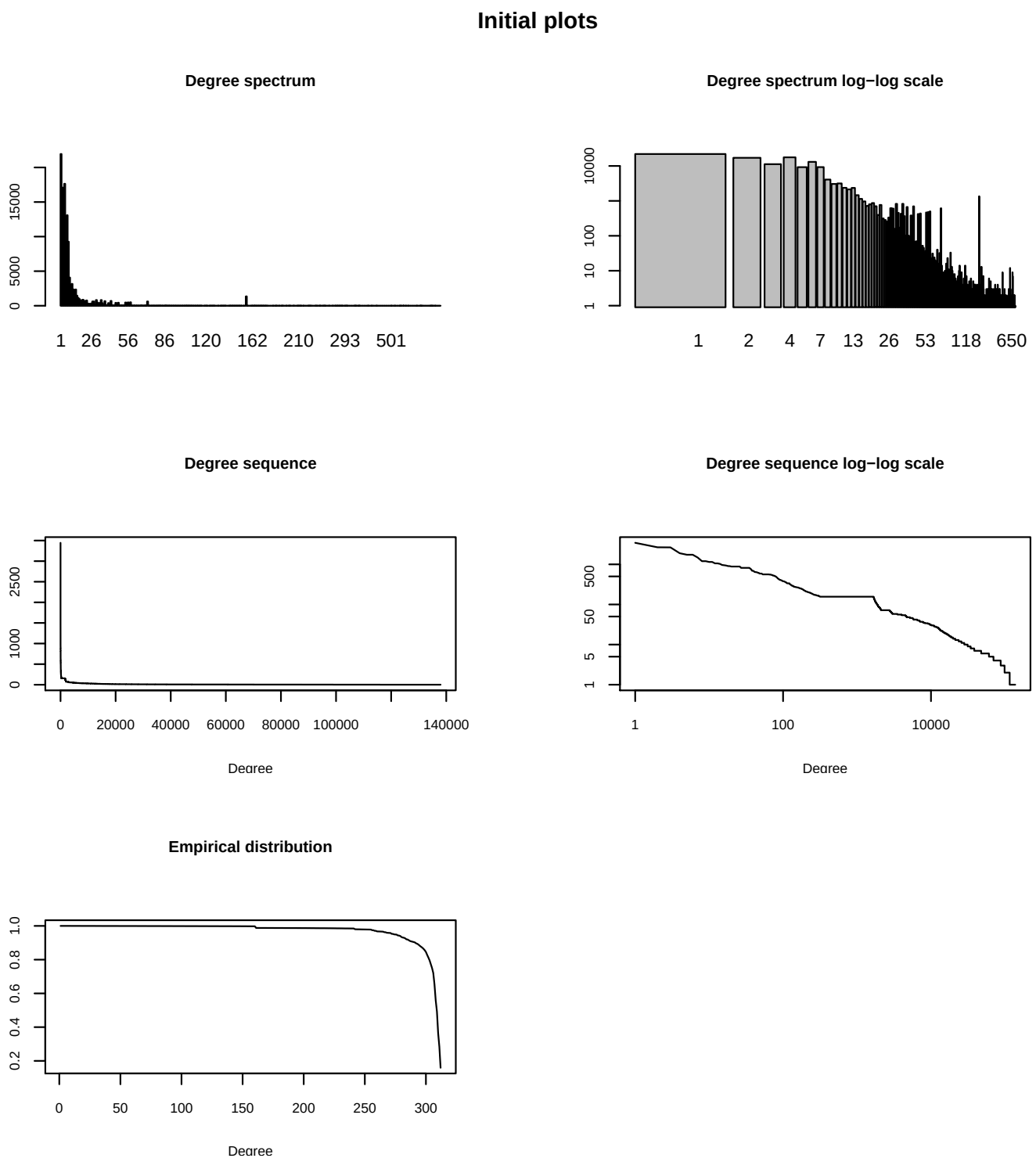

Figure 1: Initial plots.

Fitted model plots:

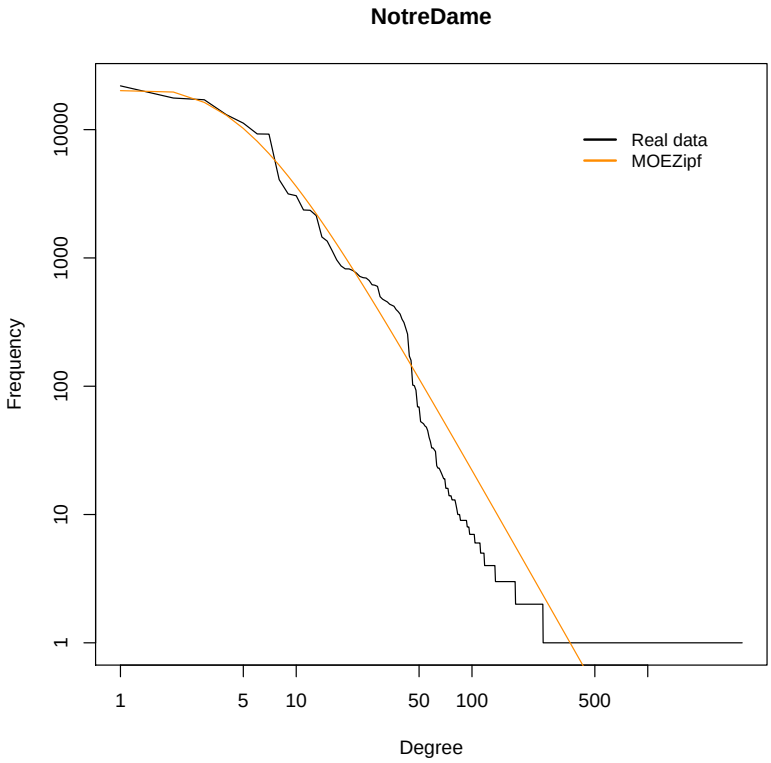

Figure 2: Best Model Fitting the data.

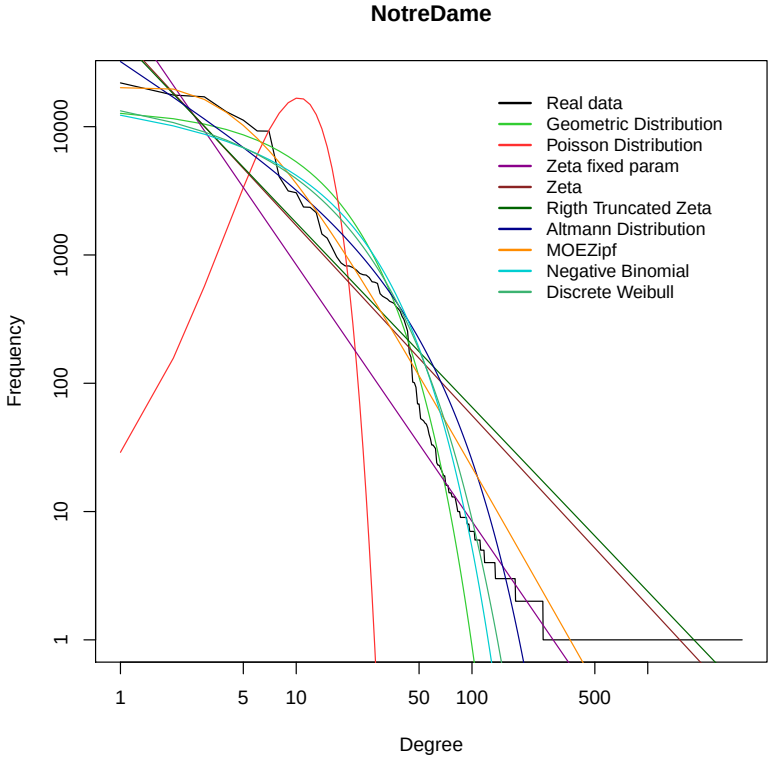

Figure 3: Best Model Fitting the data.