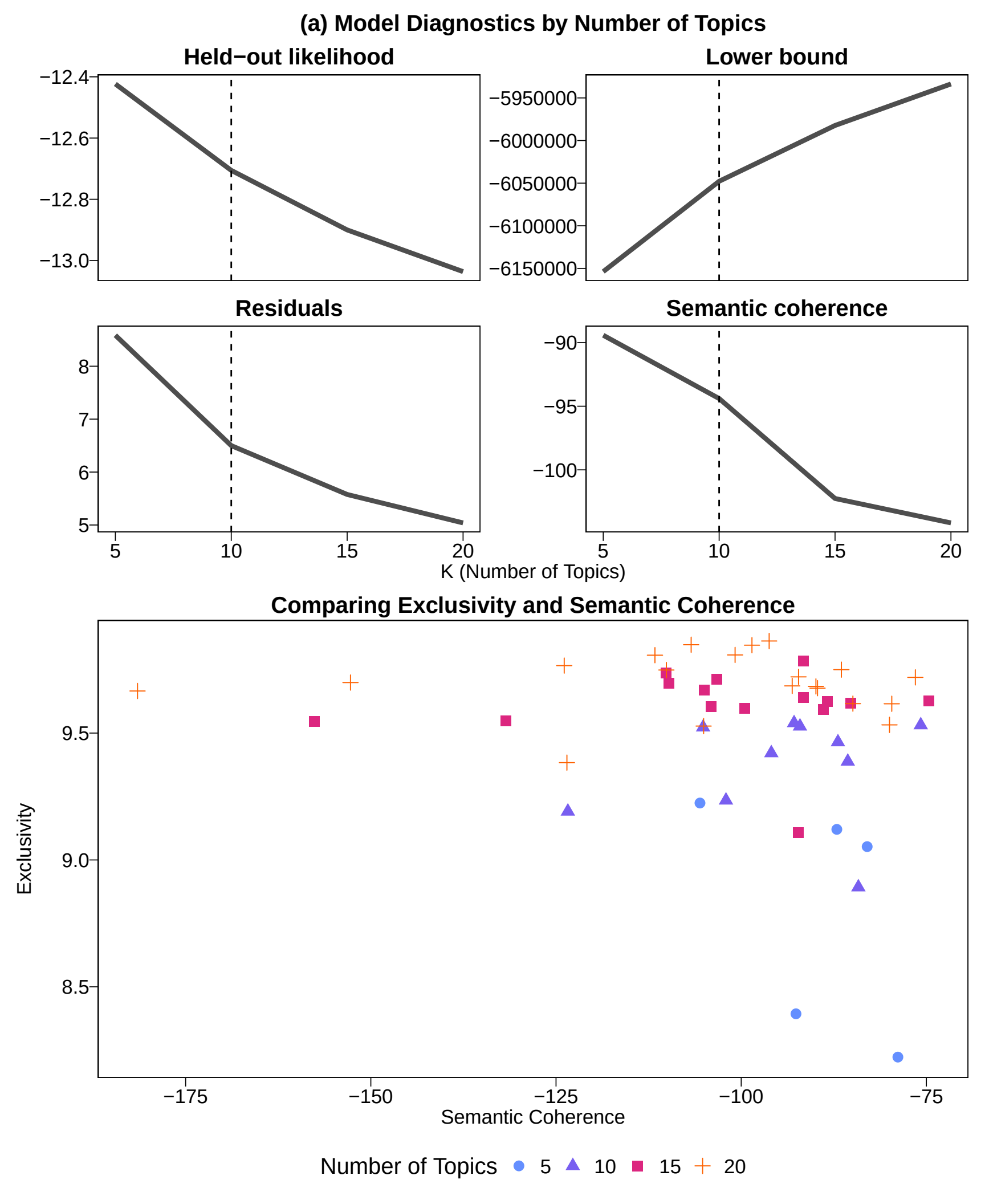
(a) Model Diagnostics by Number of Topics
Held−out likelihood
Lower bound
Residuals
Semantic coherence
−12.4
−12.6
−12.8
−13.0
−5950000
−6000000
−6050000
−6100000
−6150000
8
7
6
5
−90
−95
−100
5
10
15
20
K (Number of Topics)
Comparing Exclusivity and Semantic Coherence
Exclusivity
9.5
9.0
8.5
−175
−150
−125
−100
−75
Semantic Coherence
Number of Topics
5
10
15
20