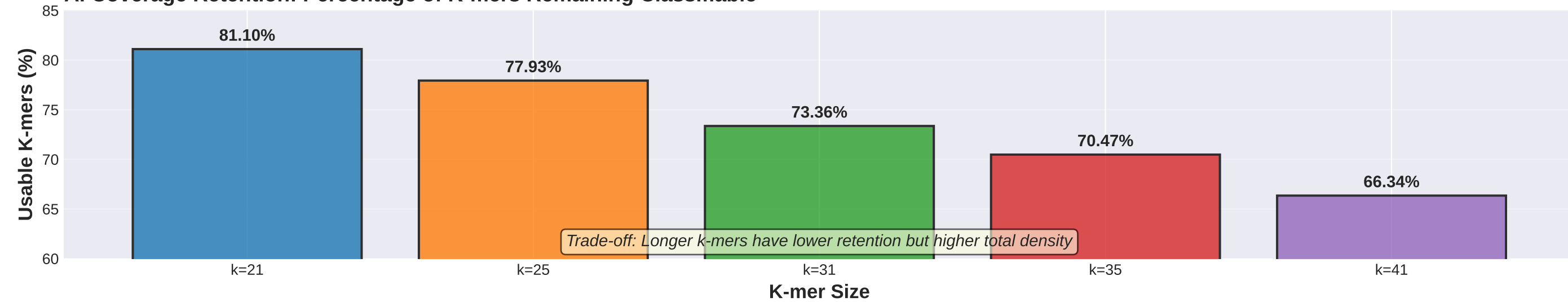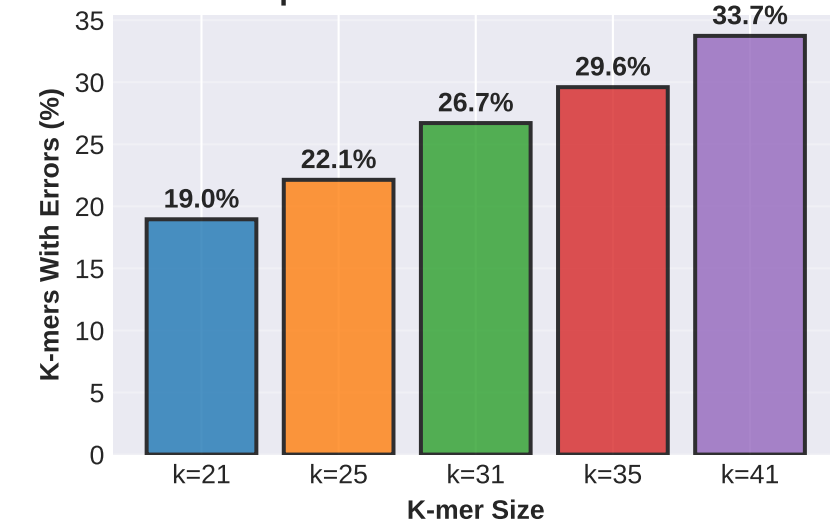# Error Resilience and Coverage Retention Analysis
(1% per-base error rate, ONT-like sequencing)
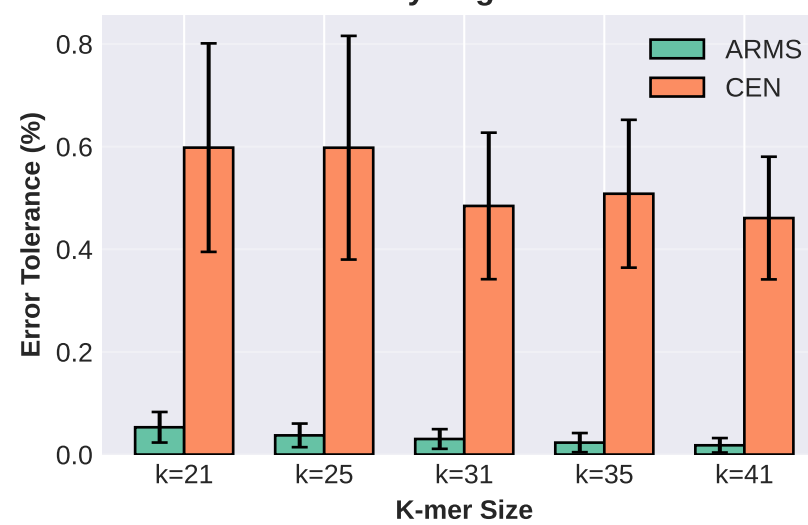

A. Coverage Retention: Percentage of K-mers Remaining Classifiable
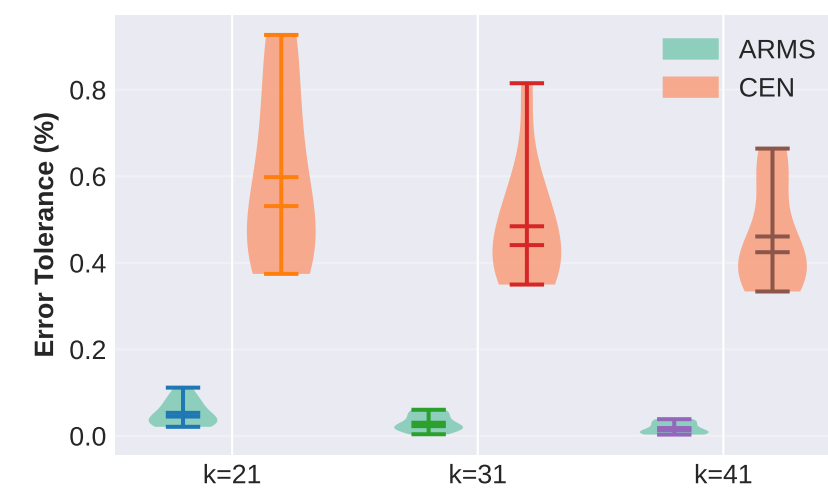
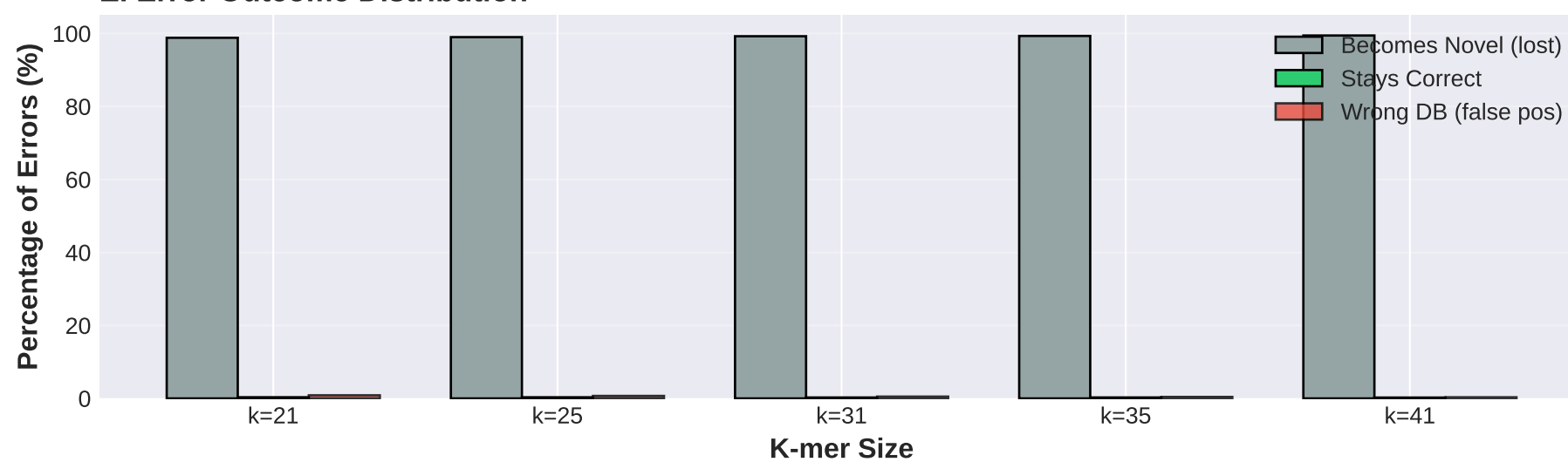Trade-off: Longer k-mers have lower retention but higher total density

B. Error Impact

C. Error Tolerance by Region

D. Error Tolerance Distribution

E. Error Outcome Distribution

F. Summary Table

K-mer	Retention	Error Impact	Interpretation
k=21	81.1%	19.0%	Best resilience
k=25	77.9%	22.1%	Good balance
k=31	73.4%	26.7%	Balanced
k=35	70.5%	29.6%	More affected
k=41	66.3%	33.7%	Most affected