Obtaining site-level dN/dS estimates with FEL

- dN/dS estimates at individual sites are not precise
- They are estimated from relatively small samples
- Precision improves with the number of sequences and divergence levels
- One approach to correct for this is to compute approximate site-level confidence intervals.

ļ	Codon	Partition	alpha	beta	LRT	Selection detected?	dN/dS with confidence intervals
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	2	1	1.843	0.000	7.521	Neg. p = 0.0061	0.000(0.00- 0.09)
	3	1	0.786	0.000	3.161	Neg. p = 0.0754	0.000(0.00- 0.16)
i i	4	1	2.174	0.000	10.742	Neg. p = 0.0010	0.000(0.00- 0.07)
i	7	1	1.105	0.000	7.537	Neg. p = 0.0060	0.000(0.00- 0.11)
i	8	1	0.422	0.000	3.173	Neg. p = 0.0749	0.000(0.00- 0.28)
i	9	1	1.353	0.000	8.638	Neg. p = 0.0033	0.000(0.00- 0.08)
j	10	1	1.353	0.000	8.369	Neg. p = 0.0038	0.000(0.00- 0.09)
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	247	1	1.353	0.000	8.088	Neg. p = 0.0045	0.000(0.00- 0.10)
i i	248	1	0.451	0.000	3.496	Neg. p = 0.0615	0.000(0.00- 0.28)
	249	1	0.000	2.700	7.881	Pos. $p = 0.0050$	10000.000(7599.84-10000.00)
i	250	1	0.220	0.000	2.797	Neg. p = 0.0945	0.000(0.00- 0.61)
j	388	j 1	0.220	0.000	2.797	Neg. p = 0.0945	0.000(0.00- 0.61)

hyphy fel --alignment data/WestNileVirus_NS3.fas --ci Yes