

<b>Version</b>	<b>Constrain set (<math>X</math>)</b>	<b>Time</b>
ASTRAL*	Unconstrained (i.e., exact)	$O(nm3^n)$
ASTRAL-I	Gene tree bipartitions	$O(n^4m^3)$
ASTRAL-II	ASTRAL-I+heuristic additions	$O(nm X ^2)$