

Node support efficacy in Congreve & Lamsdell matrices

Martin R. Smith martin.smith@durham.ac.uk

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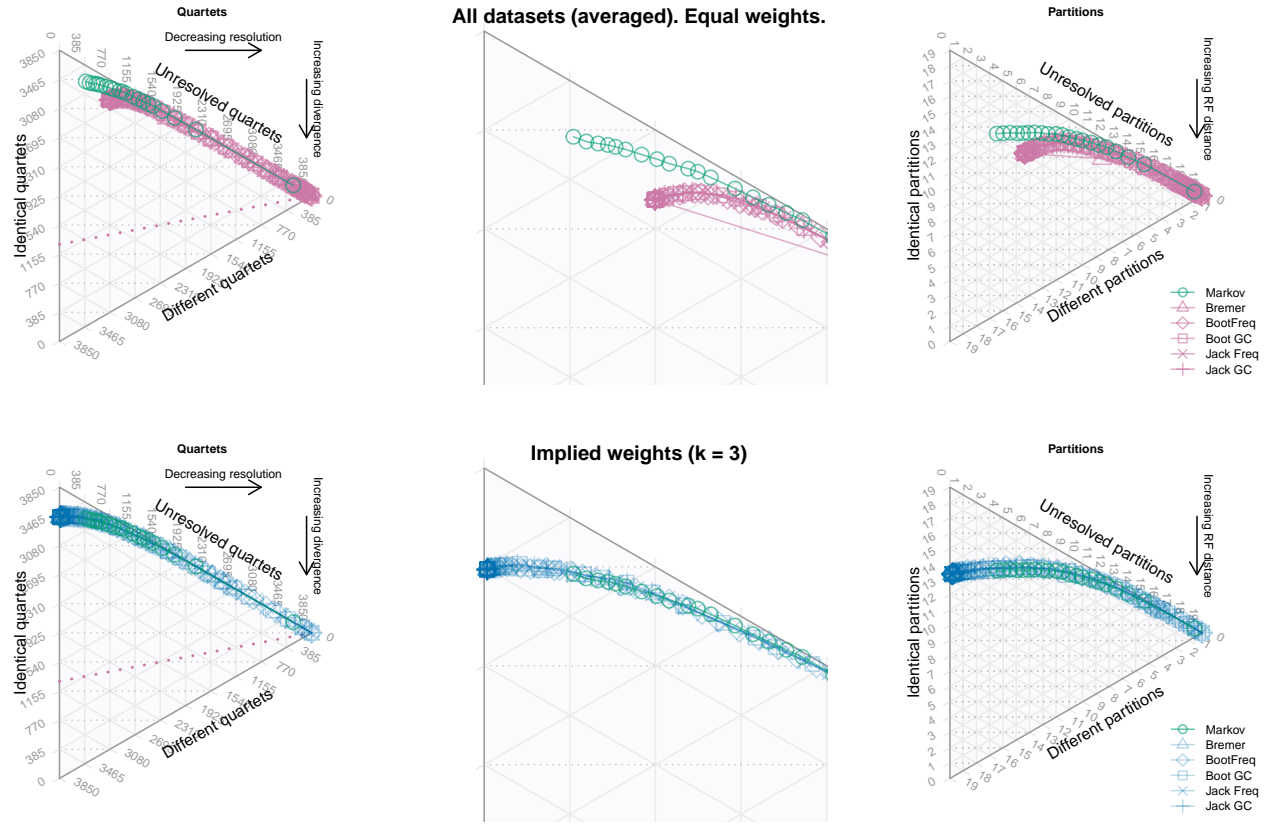
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This page depicts the analytical results of all 100 matrices generated by Congreve & Lamsdell [1] using a ternary plotting approach [2], with quartets and partitions used as distance metrics.

The most highly resolved tree is progressively reduced by collapsing nodes with a support value below an increasing threshold.

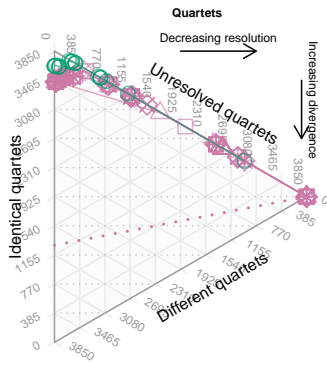
0.1 Summary



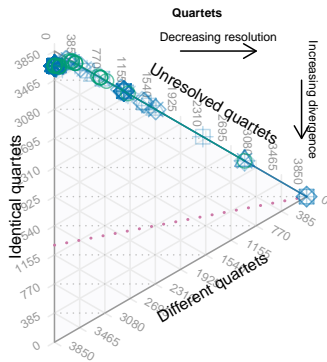
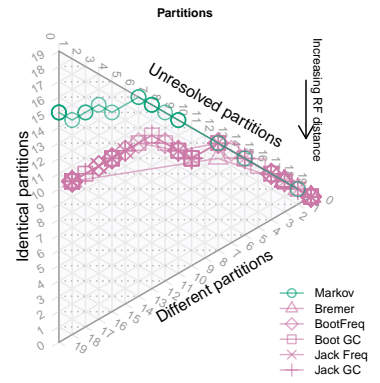
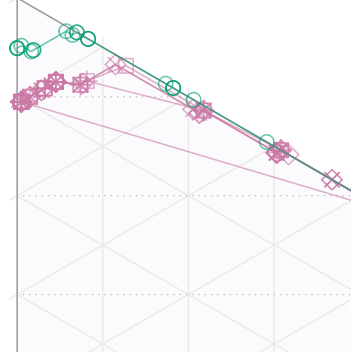
Though the Bootstrap GC metric systematically produces the lowest normalized tree distances (SD/MaxI), it is not significantly better than other methods. The following table reports P values that fail to reject the null hypothesis that the specified node support metric is equally good at ascribing incorrect nodes the lowest support values.

	eq	k1	k2	k3	k5	kX	kC
Bootstrap GC	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
Bootstrap Freq	0.9840650	0.9915189	0.9934145	0.9760370	0.9485781	0.9615921	0.9720185
Jackknife GC	0.9888177	0.9995312	0.9331647	0.9599348	0.9637166	0.9268107	0.9743023
Jackknife Freq	0.9942934	0.9554285	0.9509308	0.9839102	0.8639063	0.9408796	0.9723566
Bremer	0.4347916	0.3324499	0.5075762	0.4474386	0.3405988	0.2397081	0.8365157

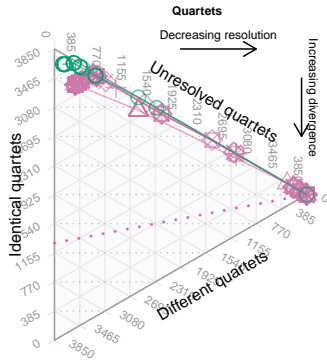
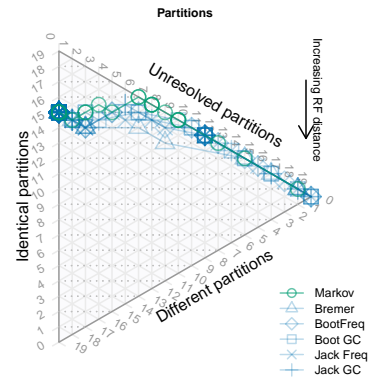
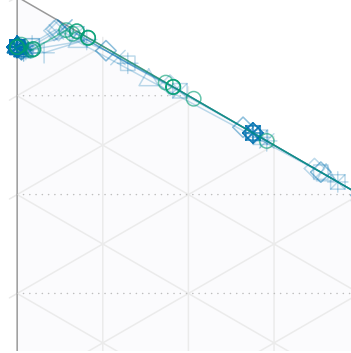
0.2 Trees 1–10



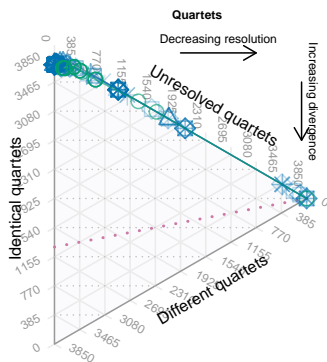
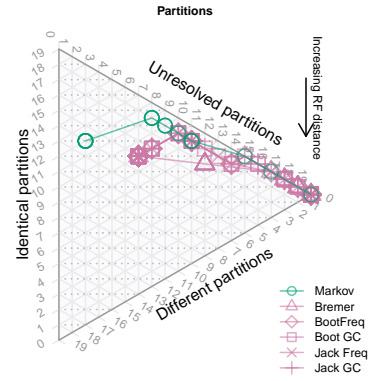
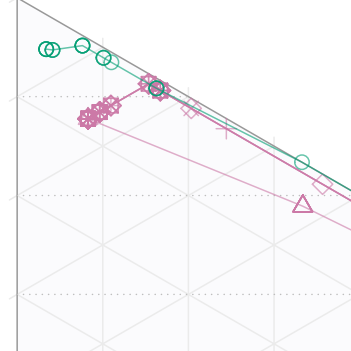
Dataset 1: CI=0.28. Equal weights



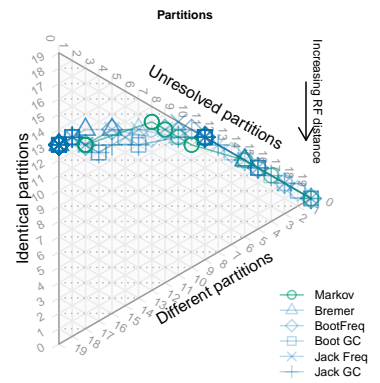
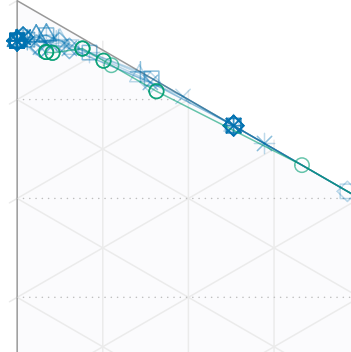
Implied weights (k = 3)

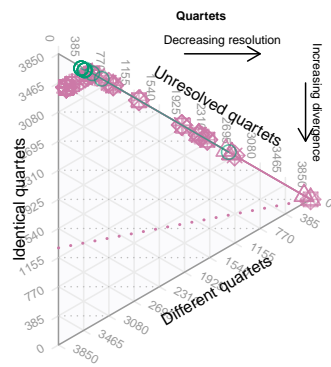


Dataset 2: CI=0.25. Equal weights

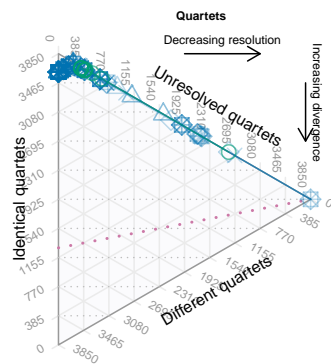
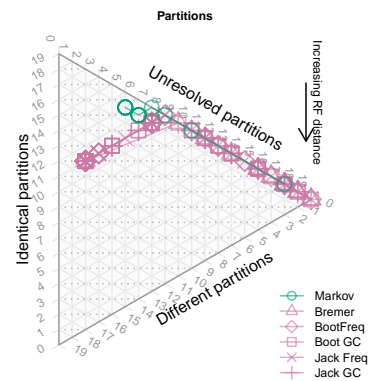
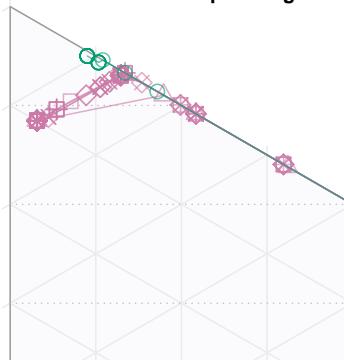


Implied weights (k = 3)

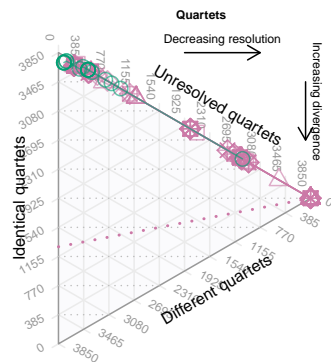
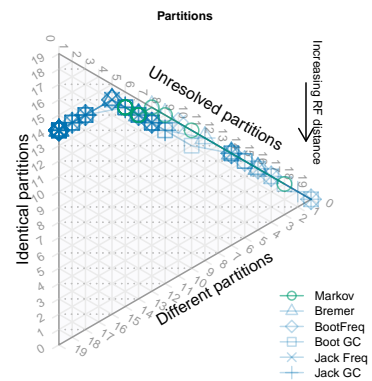
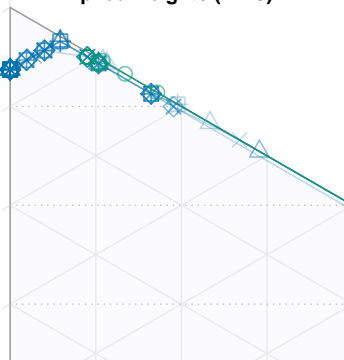




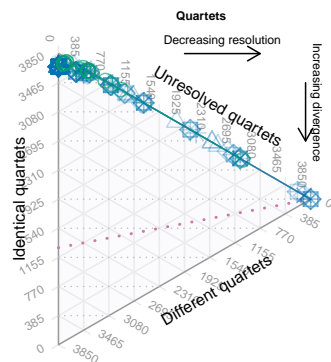
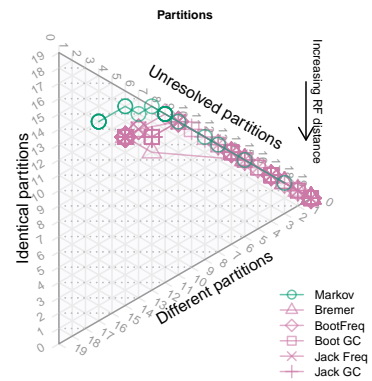
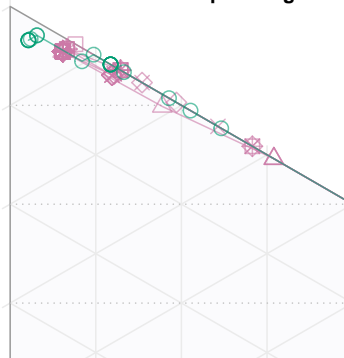
Dataset 3: CI=0.29. Equal weights



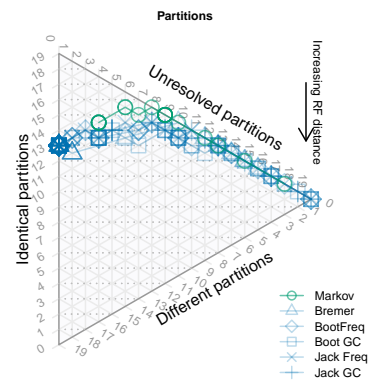
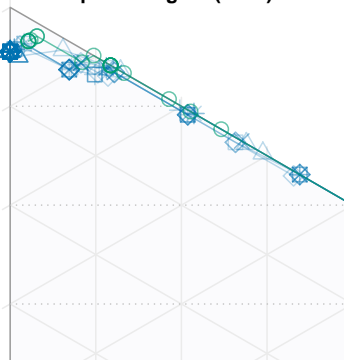
Implied weights (k = 3)

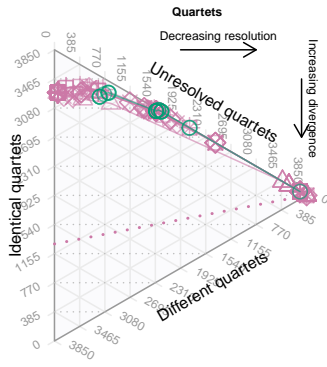


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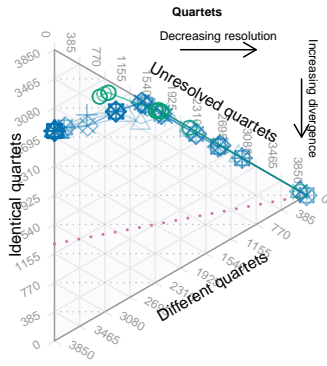
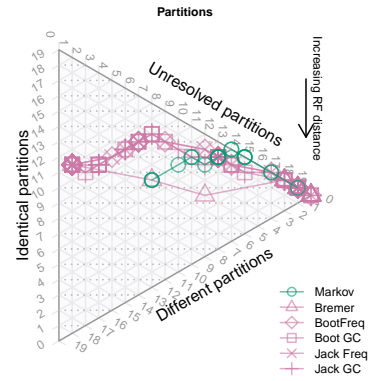
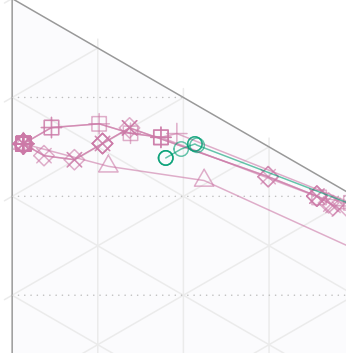


Implied weights (k = 3)

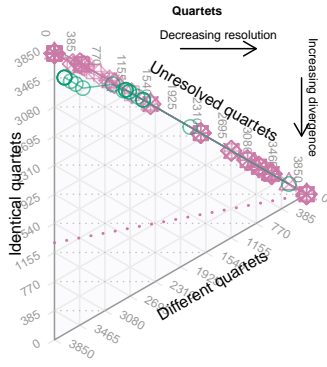
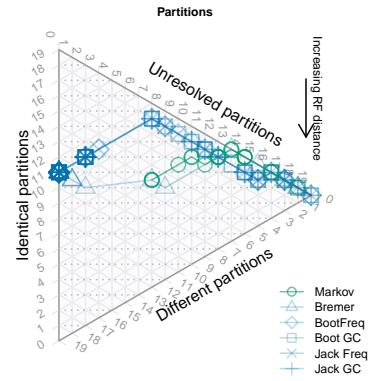
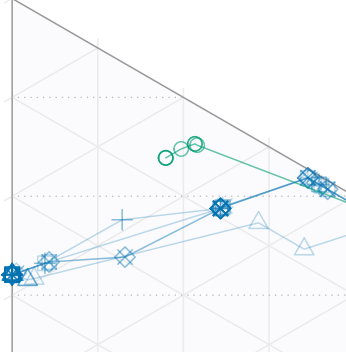




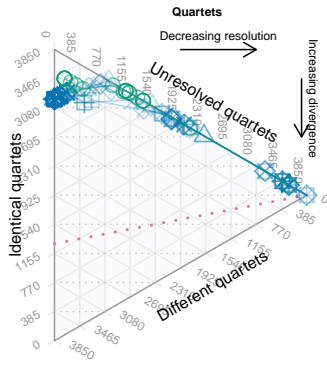
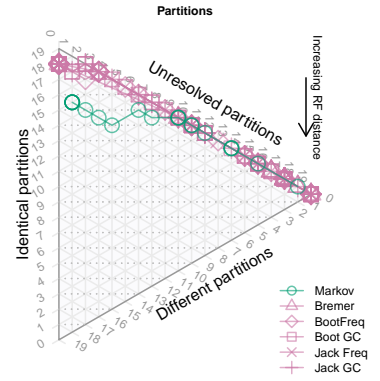
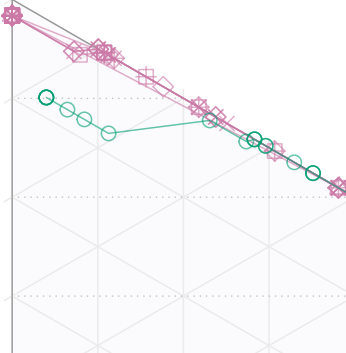
Dataset 5: CI=0.26. Equal weights



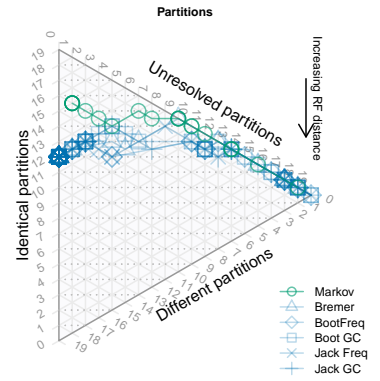
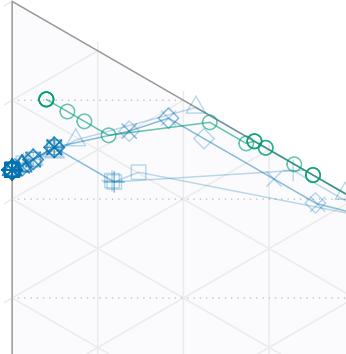
Implied weights (k = 3)

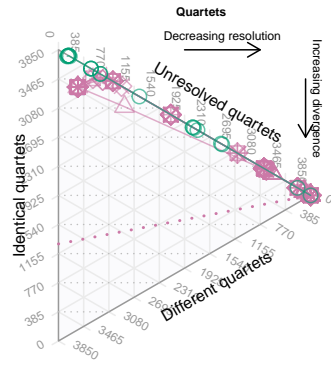


Dataset 6: CI=0.26. Equal weights

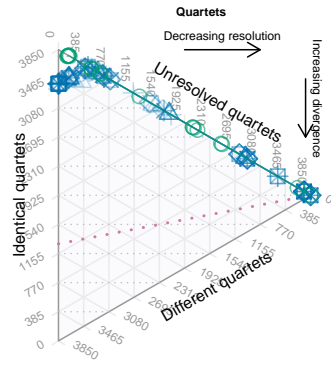
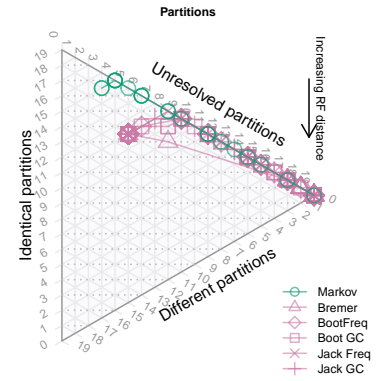
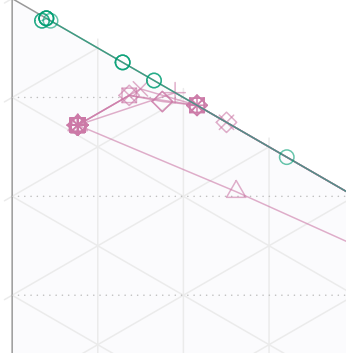


Implied weights (k = 3)

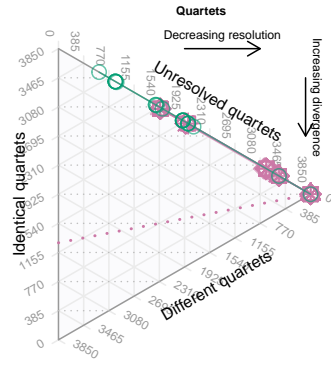
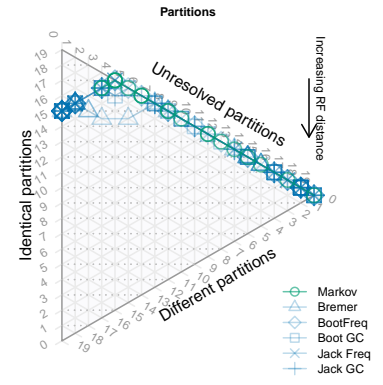
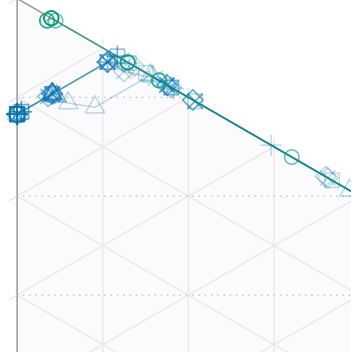




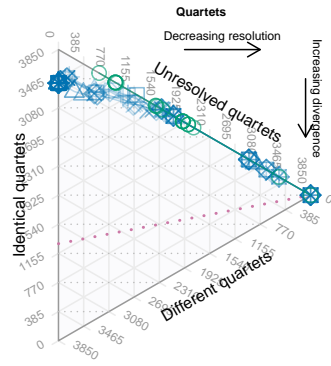
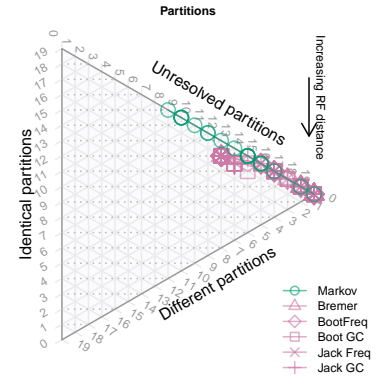
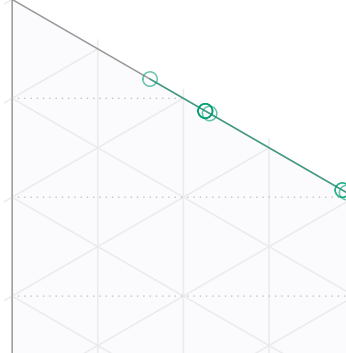
Dataset 7: CI=0.27. Equal weights



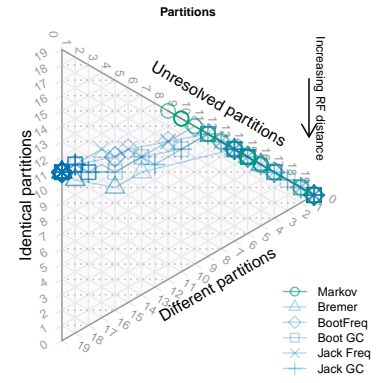
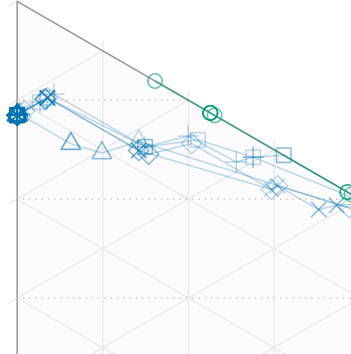
Implied weights (k = 3)

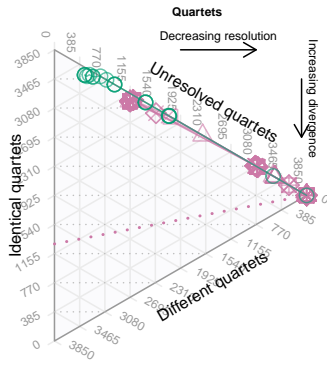


Dataset 8: CI=0.25. Equal weights

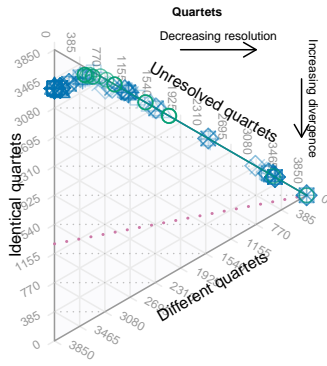
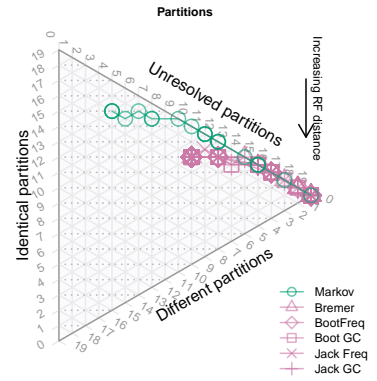
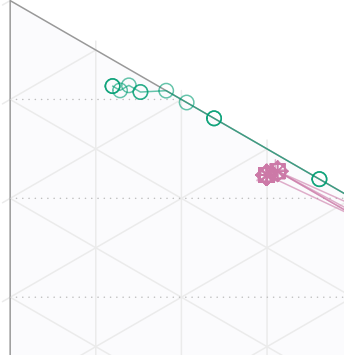


Implied weights (k = 3)

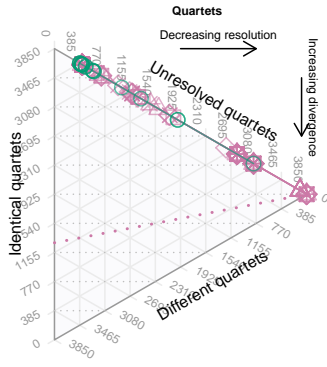
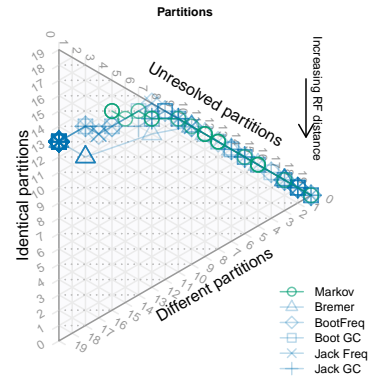
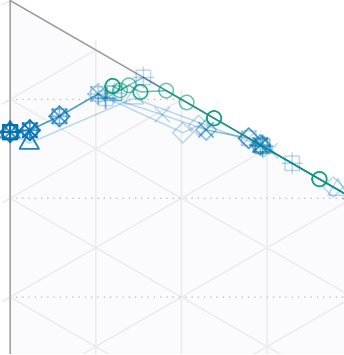




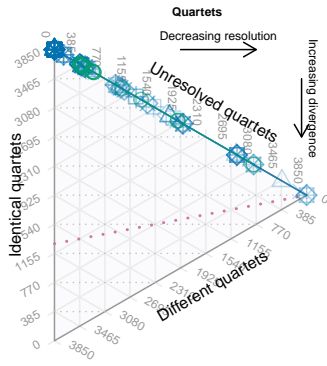
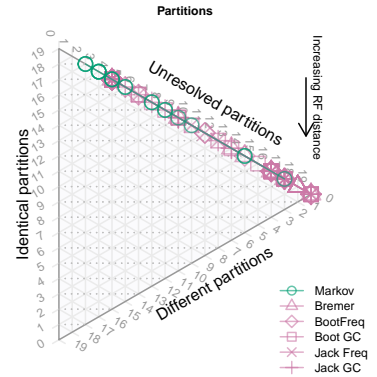
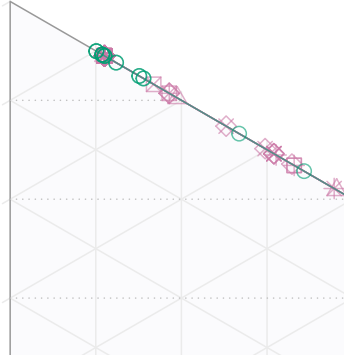
Dataset 9: CI=0.24. Equal weights



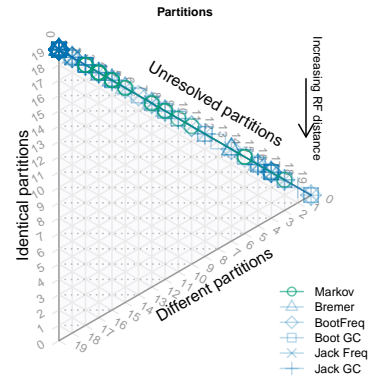
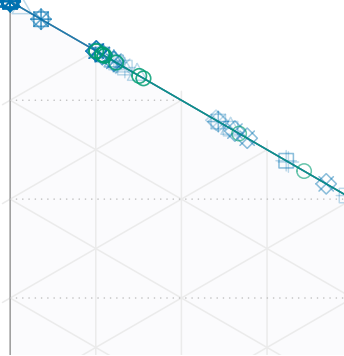
Implied weights (k = 3)



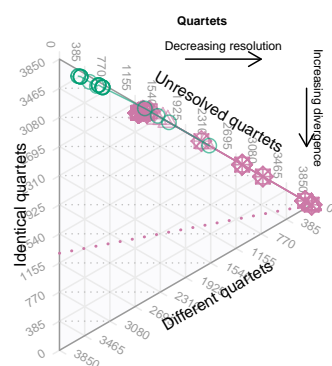
Dataset 10: CI=0.29. Equal weights



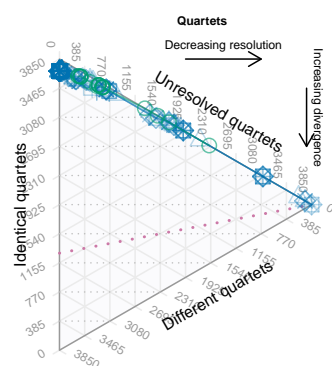
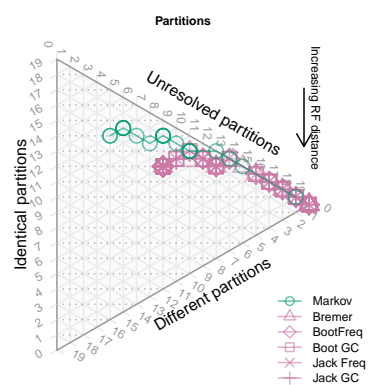
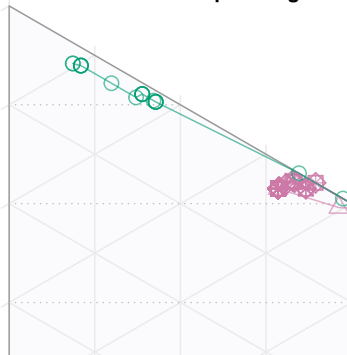
Implied weights (k = 3)



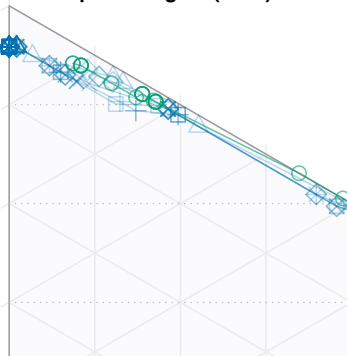
0.3 Trees 11–20



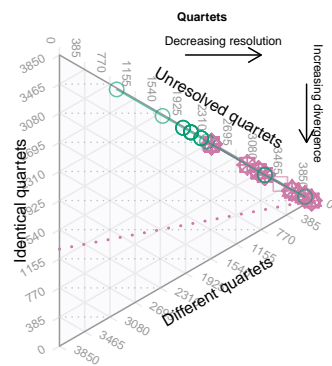
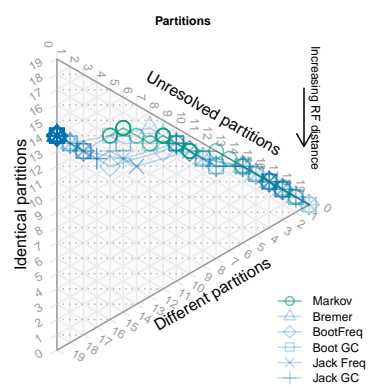
Dataset 11: CI=0.25. Equal weights



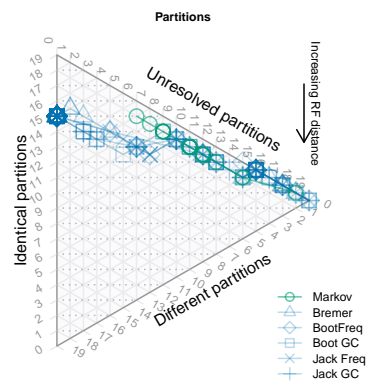
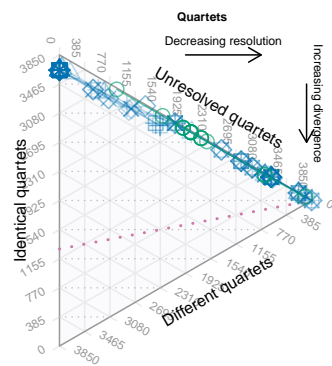
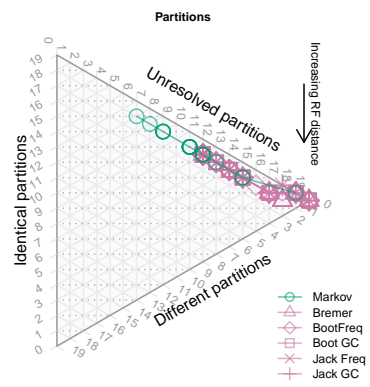
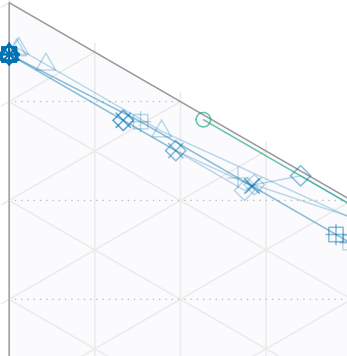
Implied weights (k = 3)

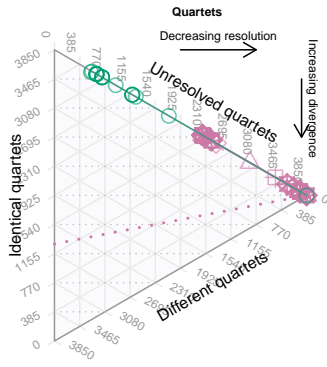


Dataset 12: CI=0.29. Equal weights

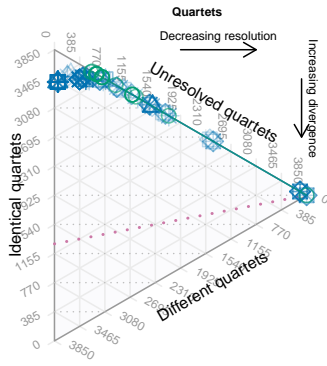
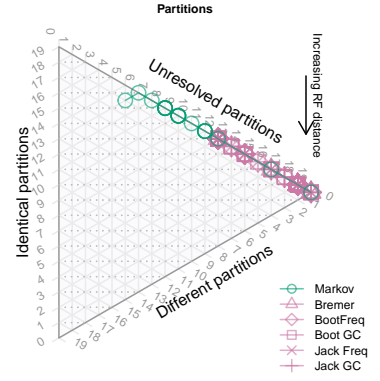
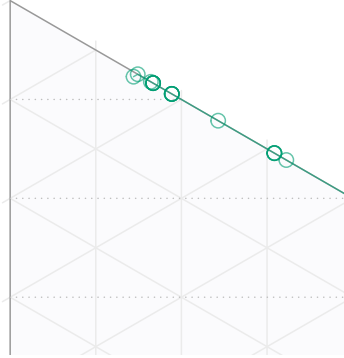


Implied weights (k = 3)

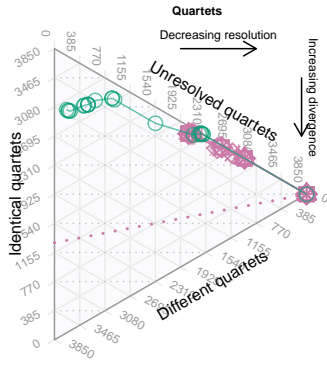
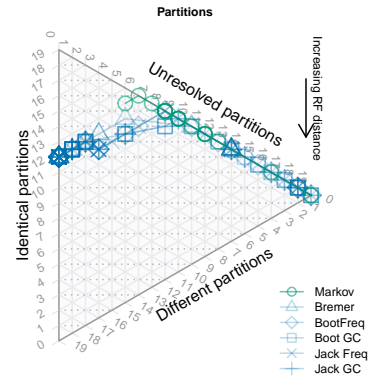
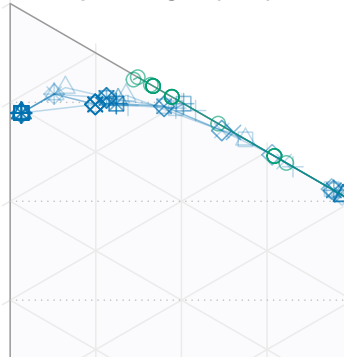




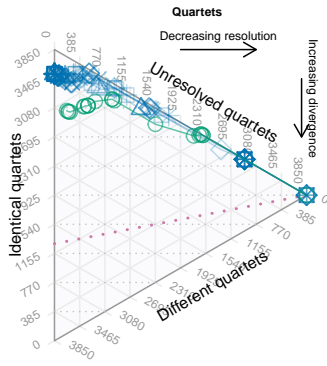
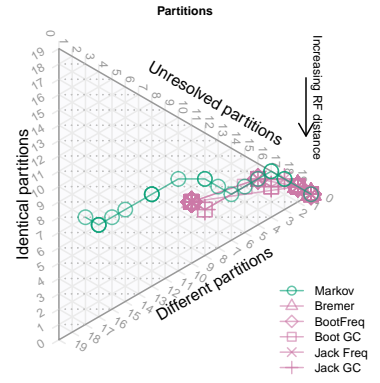
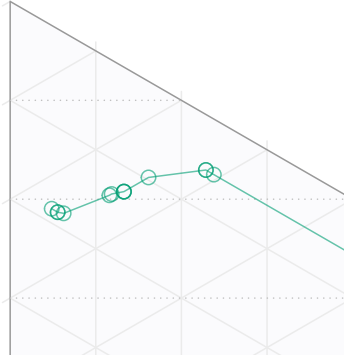
Dataset 13: CI=0.25. Equal weights



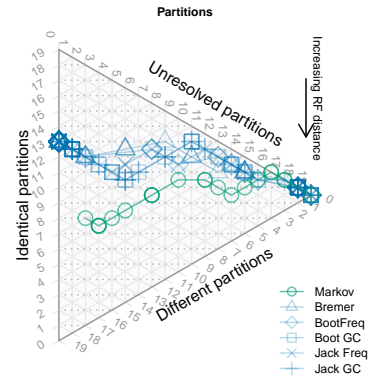
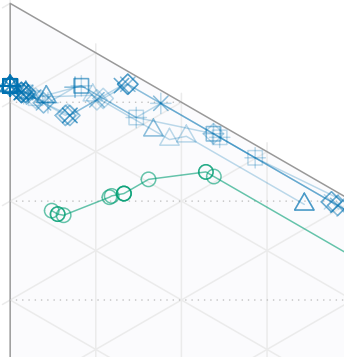
Implied weights (k = 3)

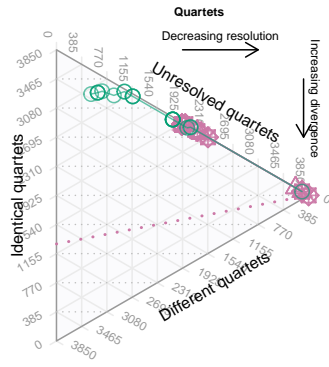


Dataset 14: CI=0.25. Equal weights

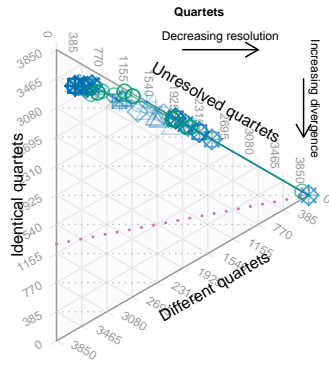
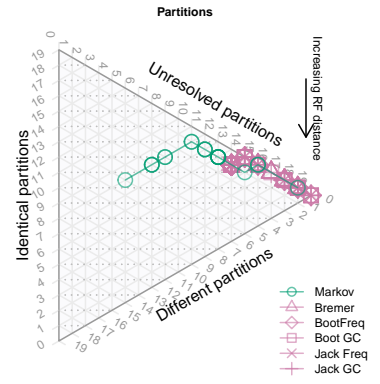
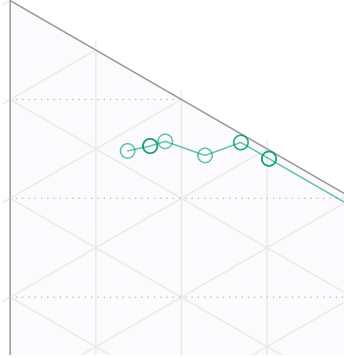


Implied weights (k = 3)

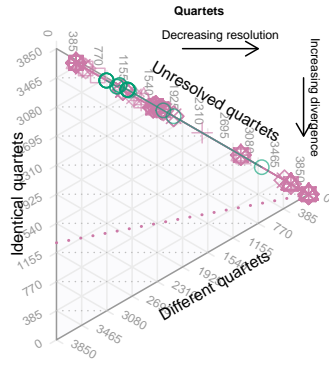
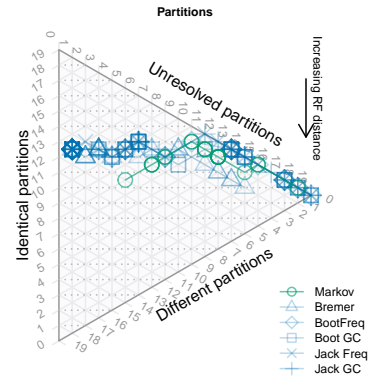
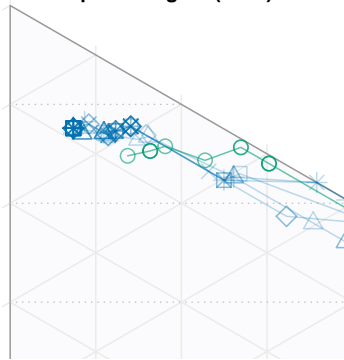




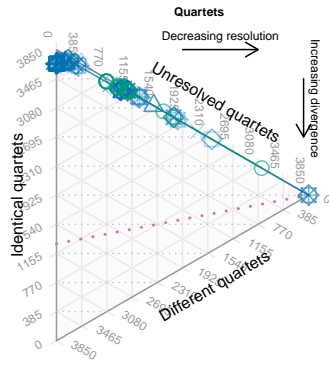
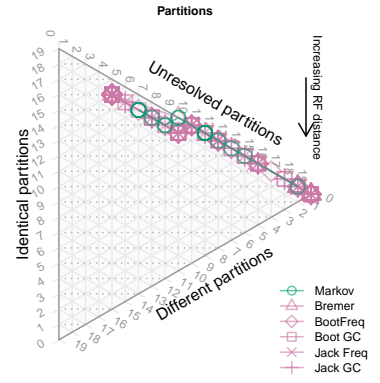
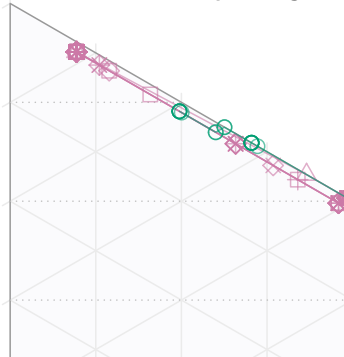
Dataset 15: CI=0.25. Equal weights



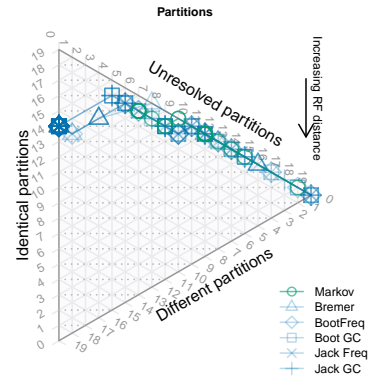
Implied weights (k = 3)

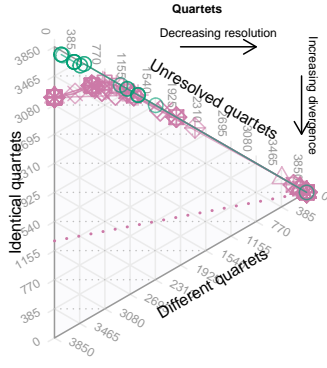


Dataset 16: CI=0.25. Equal weights

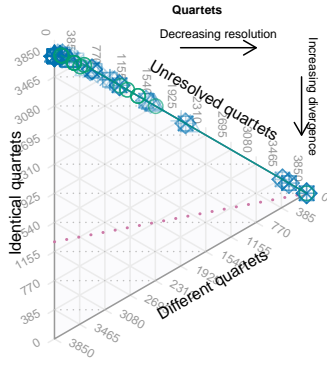
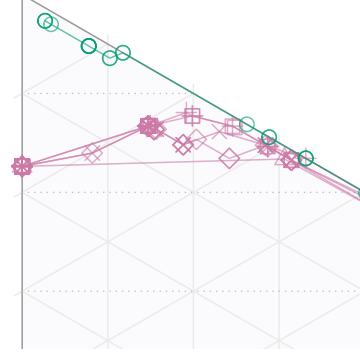


Implied weights (k = 3)

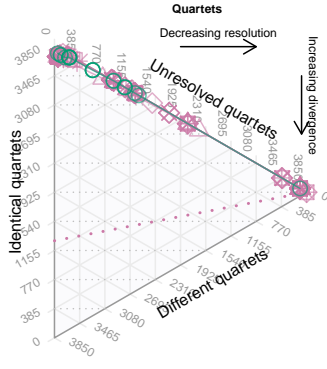
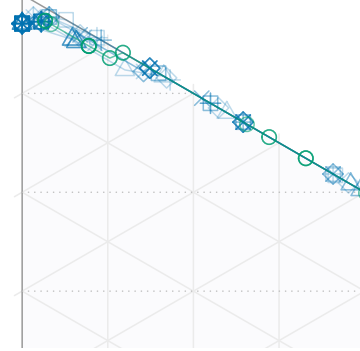




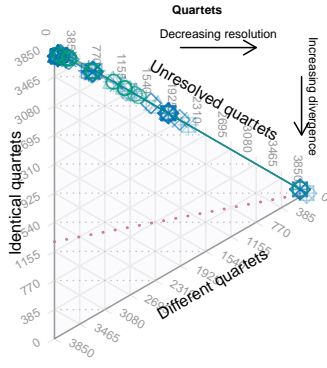
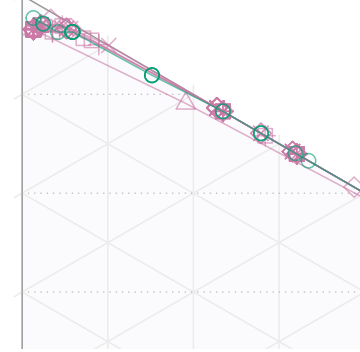
Dataset 17: CI=0.27. Equal weights



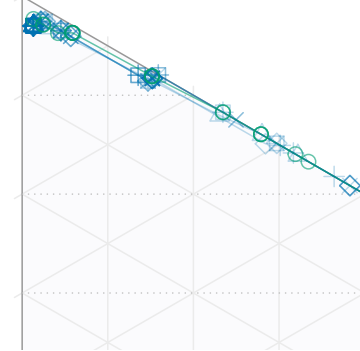
Implied weights (k = 3)

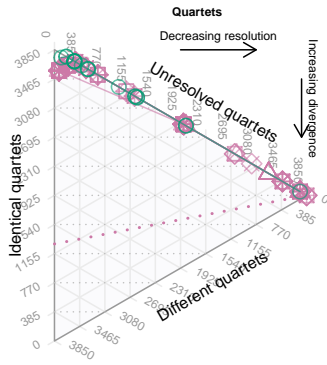


Dataset 18: CI=0.28. Equal weights

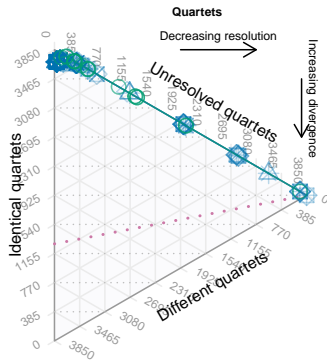
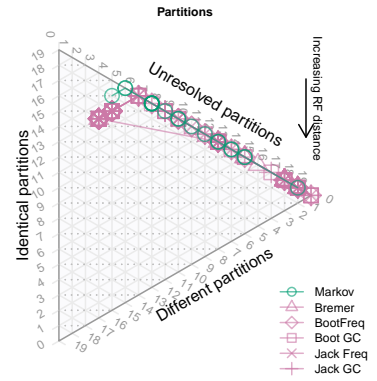


Implied weights (k = 3)

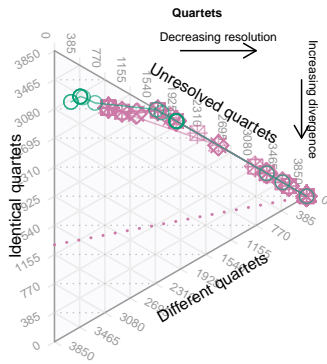
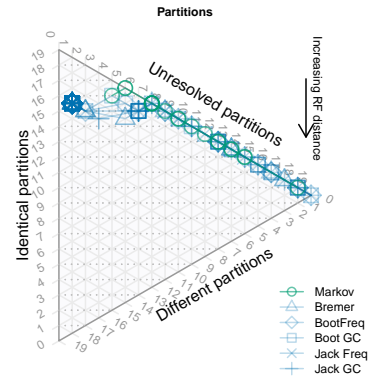




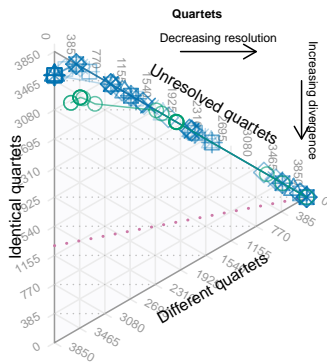
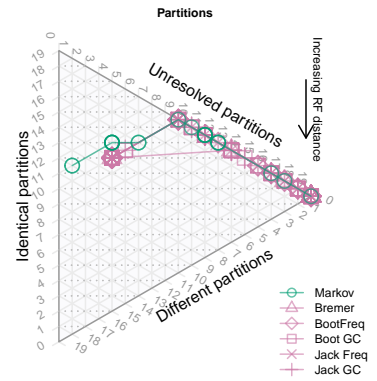
Dataset 19: CI=0.3. Equal weights



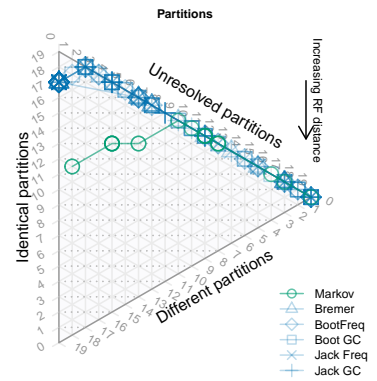
Implied weights (k = 3)



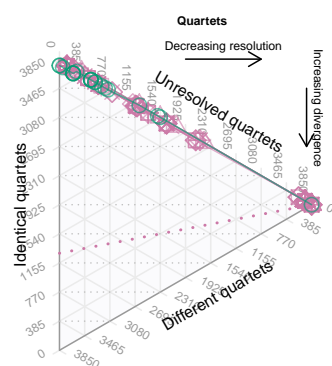
Dataset 20: CI=0.25. Equal weights



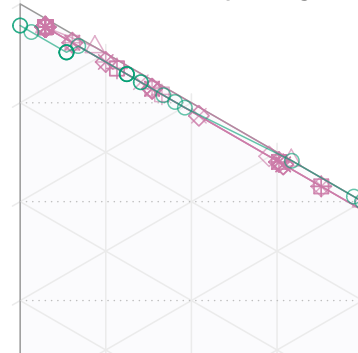
Implied weights (k = 3)

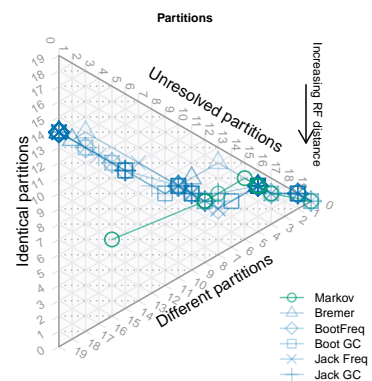
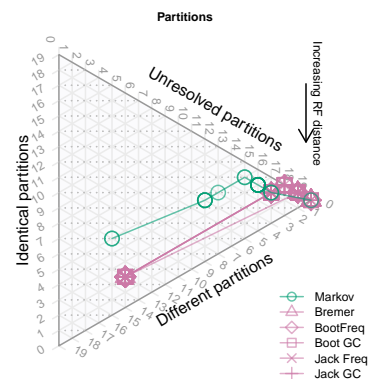
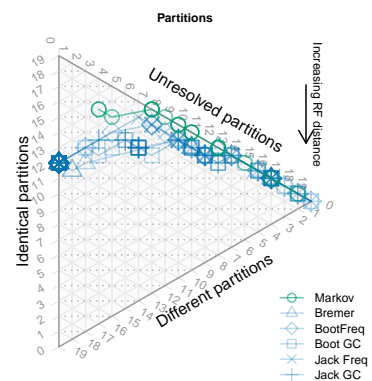
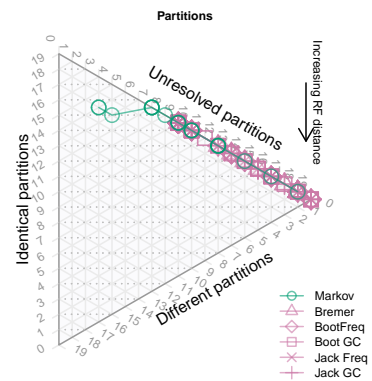


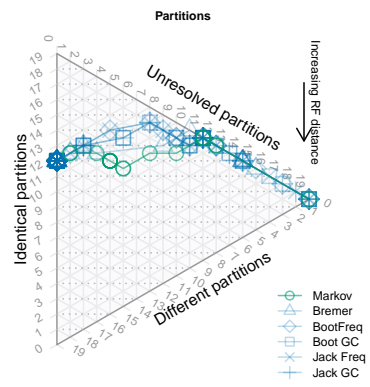
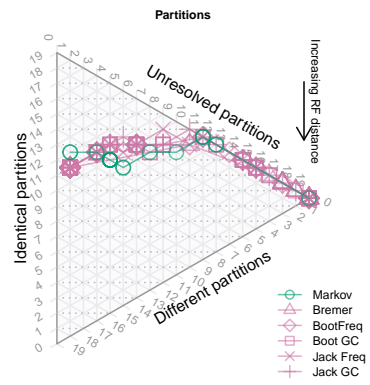
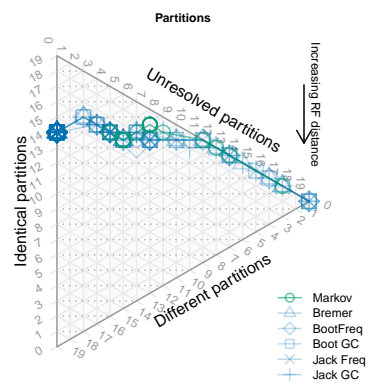
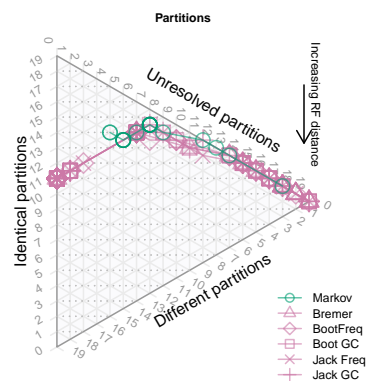
0.4 Trees 21–30

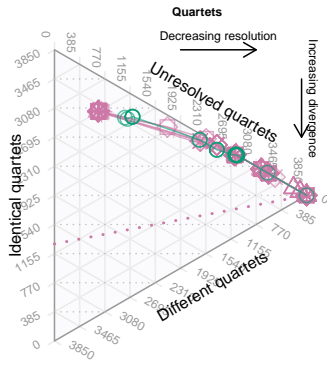


Dataset 21: CI=0.26. Equal weights

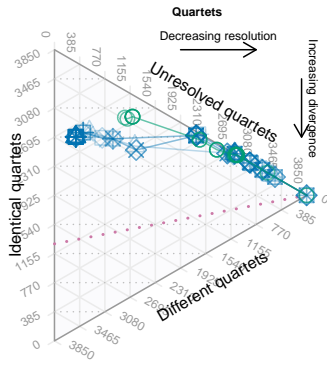
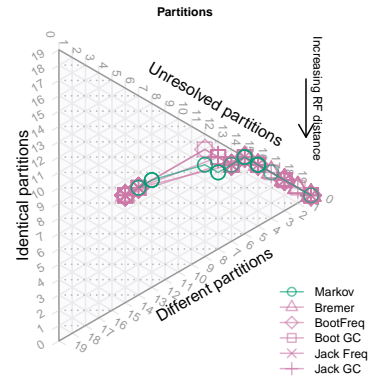
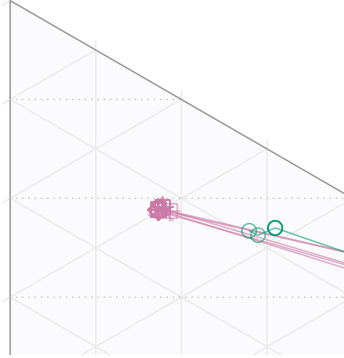




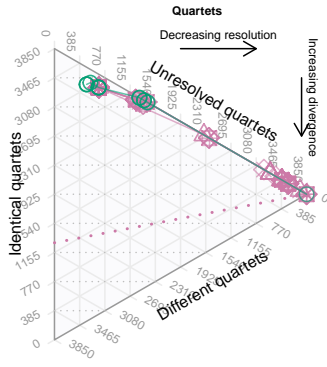
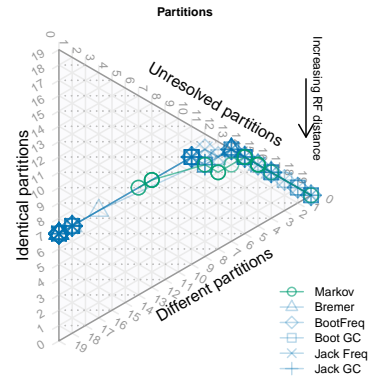




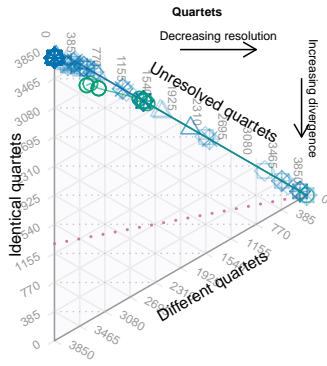
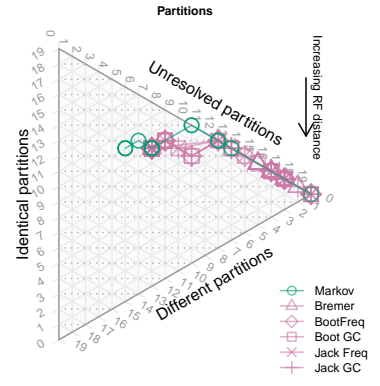
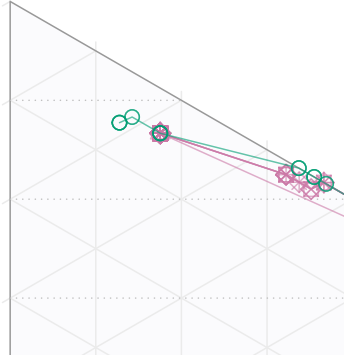
Dataset 27: CI=0.26. Equal weights



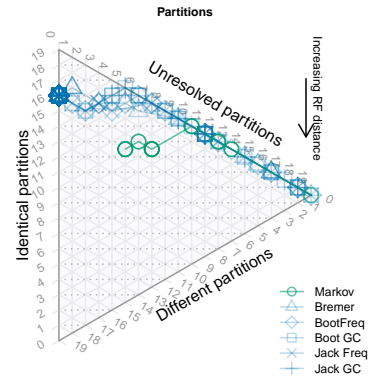
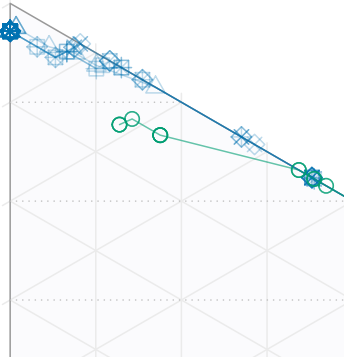
Implied weights (k = 3)

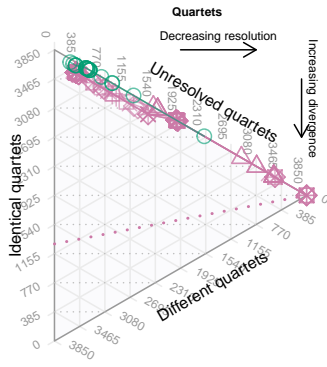


Dataset 28: CI=0.27. Equal weights

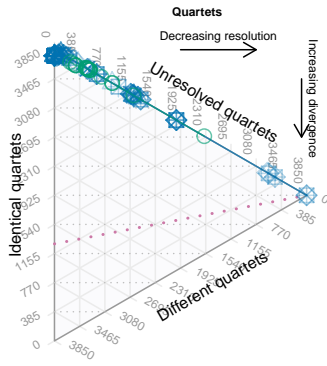
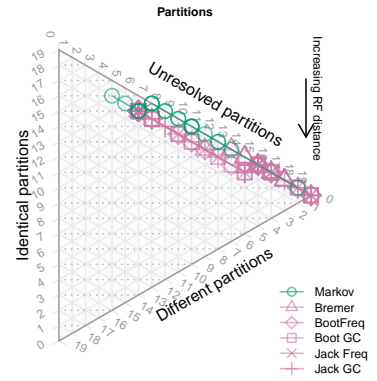


Implied weights (k = 3)

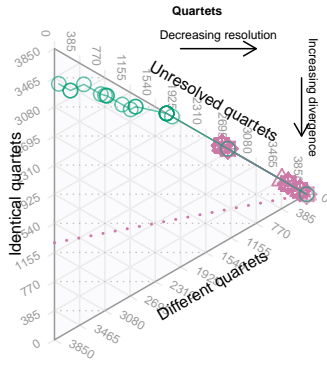
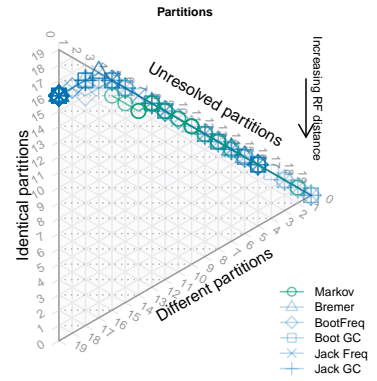




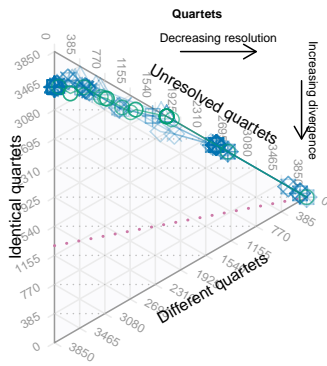
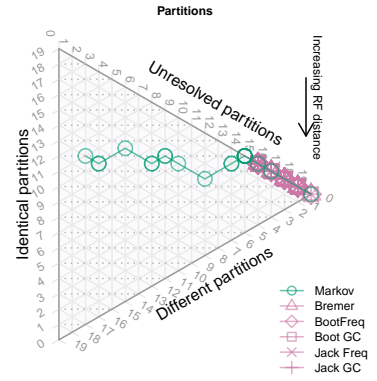
Dataset 29: CI=0.29. Equal weights



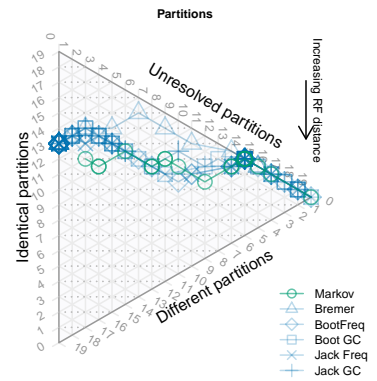
Implied weights (k = 3)



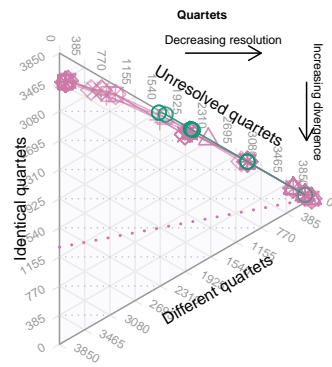
Dataset 30: CI=0.25. Equal weights



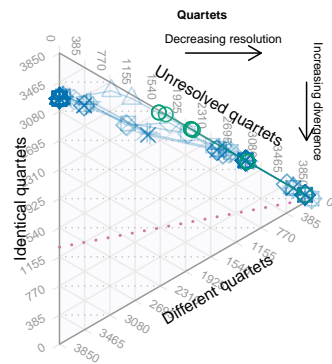
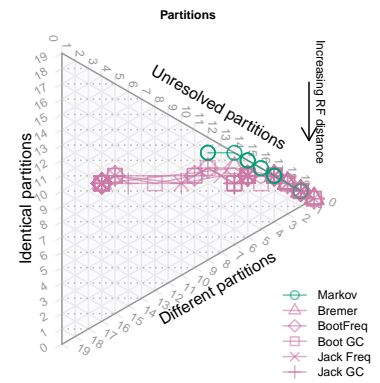
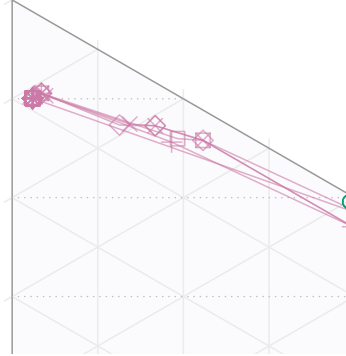
Implied weights (k = 3)



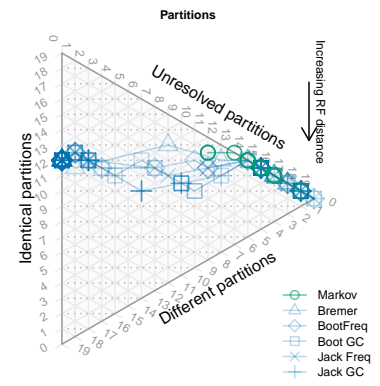
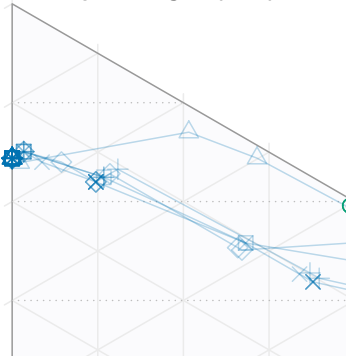
0.5 Trees 31–40



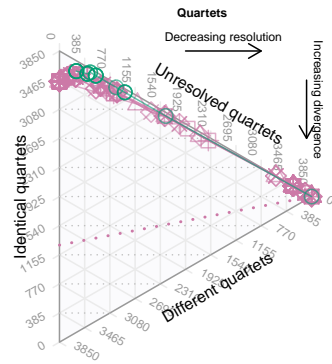
Dataset 31: CI=0.26. Equal weights



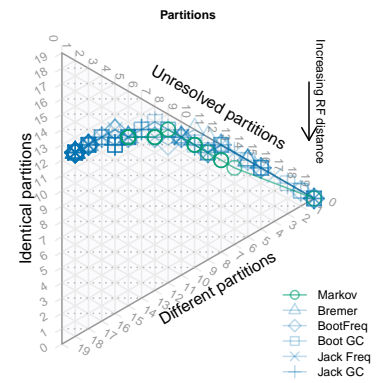
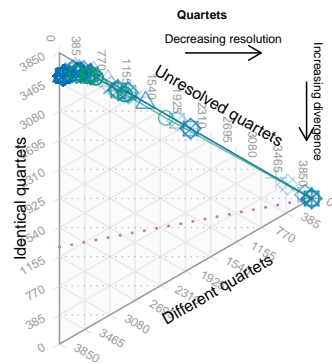
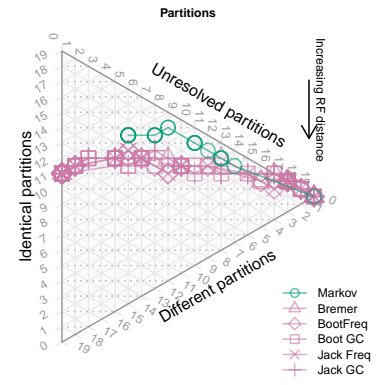
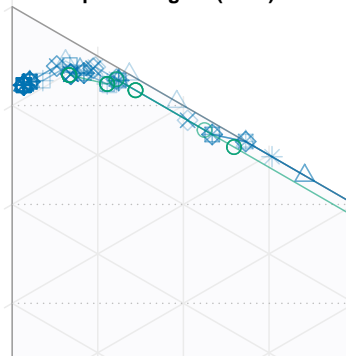
Implied weights (k = 3)

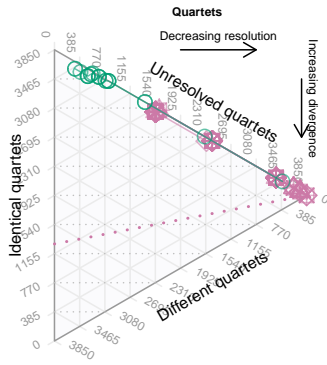


Dataset 32: CI=0.25. Equal weights

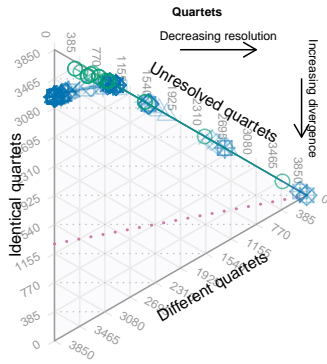
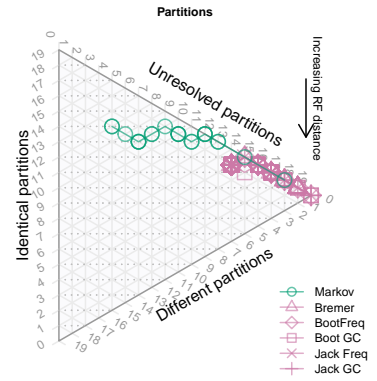
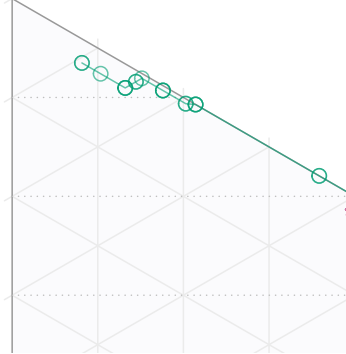


Implied weights (k = 3)

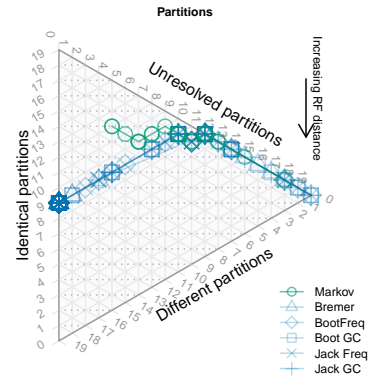
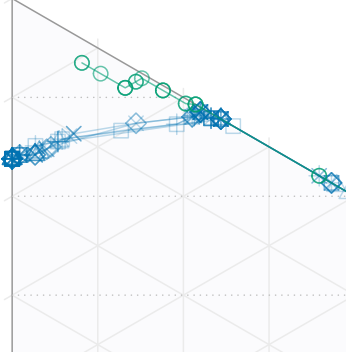




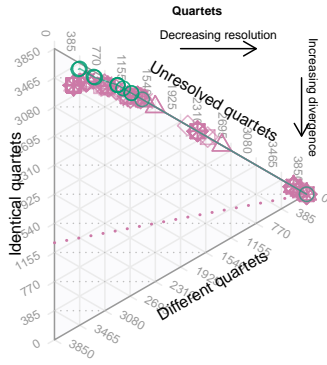
Dataset 33: CI=0.27. Equal weights



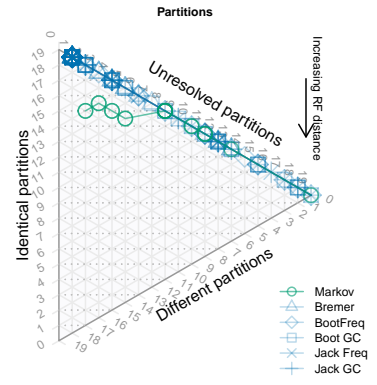
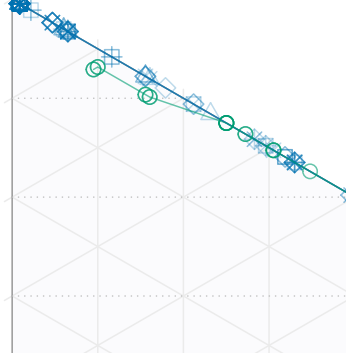
Implied weights (k = 3)

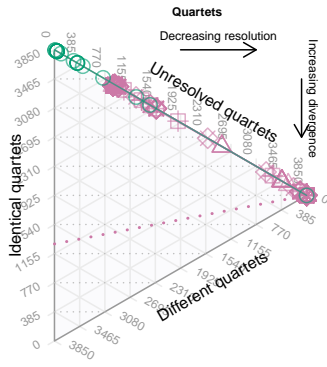


Dataset 34: CI=0.29. Equal weights

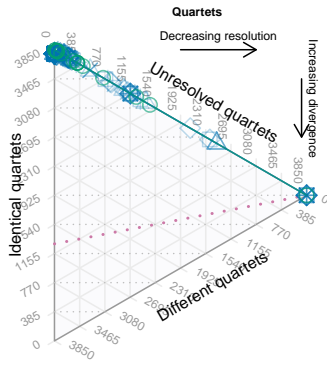
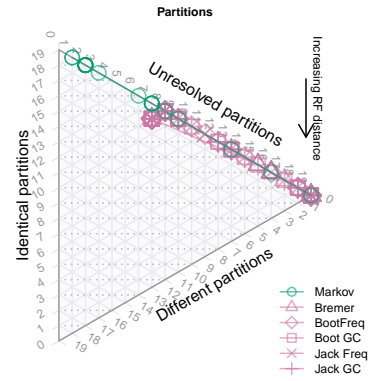


Implied weights (k = 3)

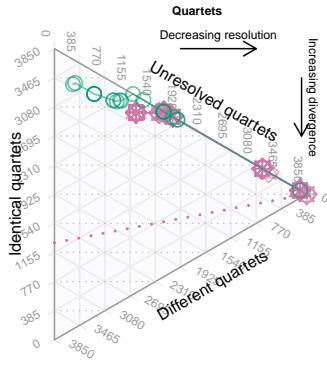
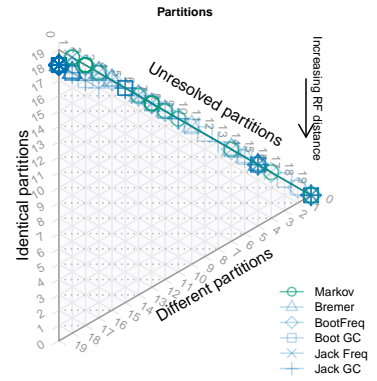




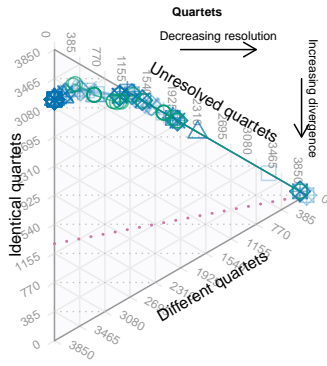
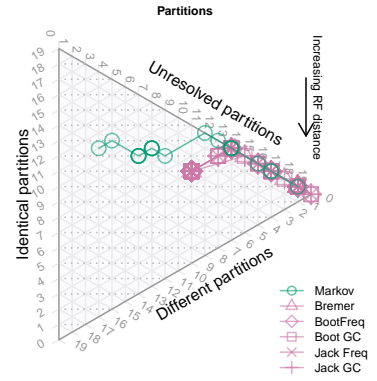
Dataset 35: CI=0.25. Equal weights



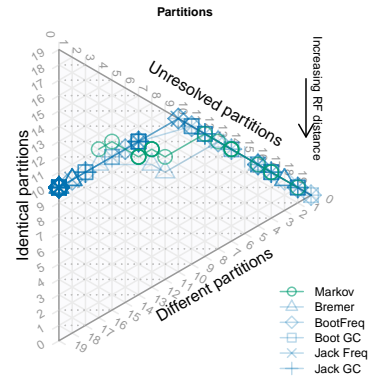
Implied weights (k = 3)

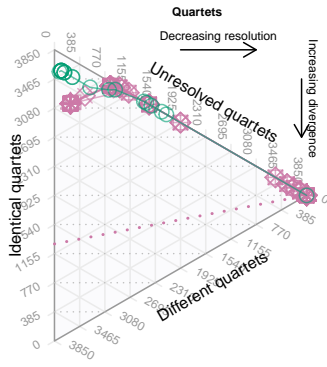


Dataset 36: CI=0.24. Equal weights

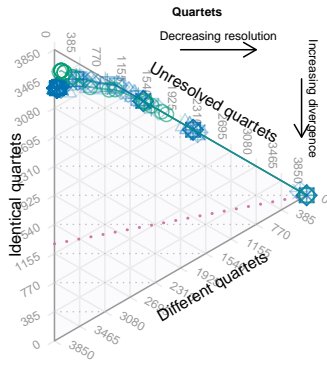
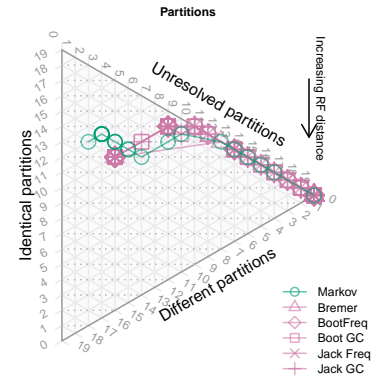
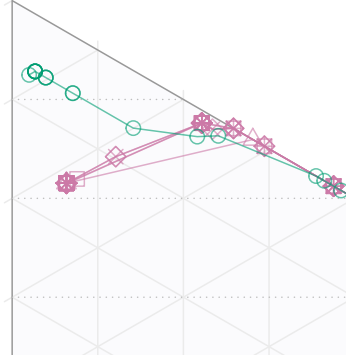


Implied weights (k = 3)

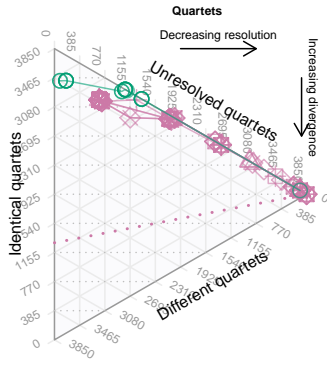
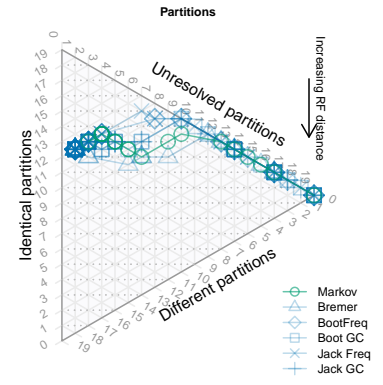
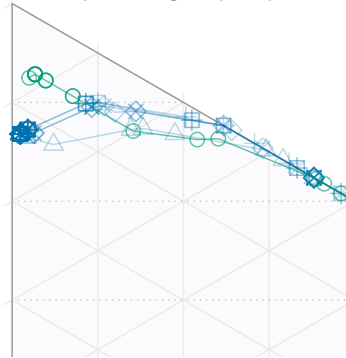




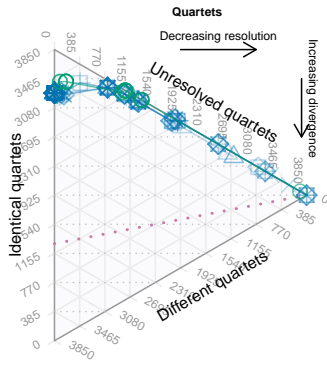
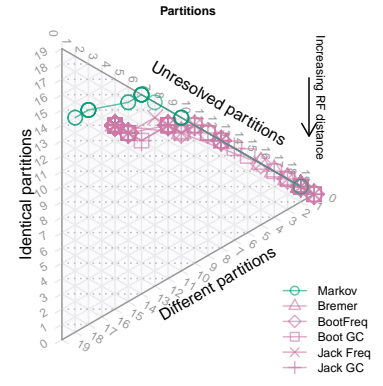
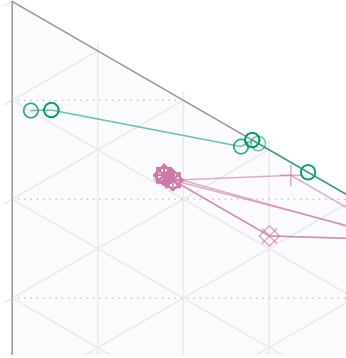
Dataset 37: CI=0.26. Equal weights



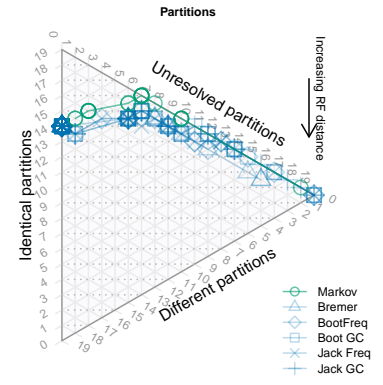
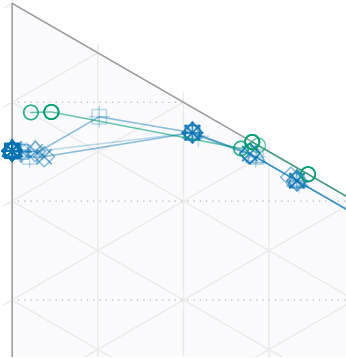
Implied weights (k = 3)

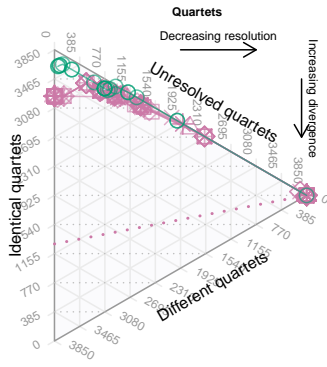


Dataset 38: CI=0.29. Equal weights

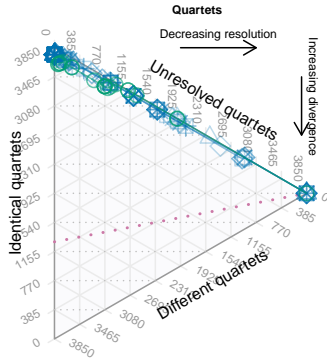
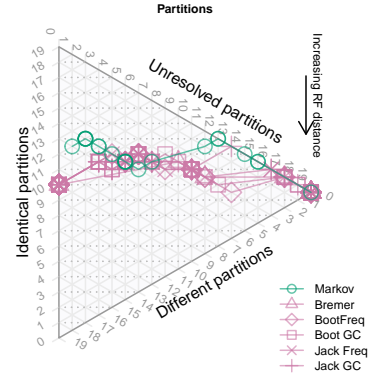
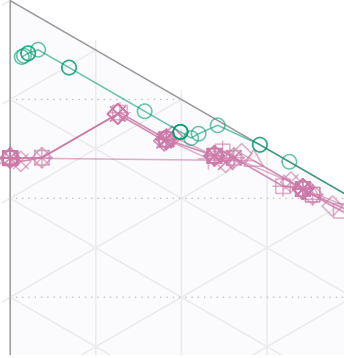


Implied weights (k = 3)

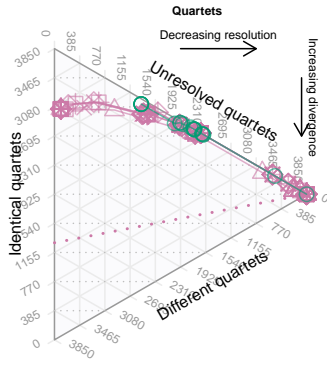
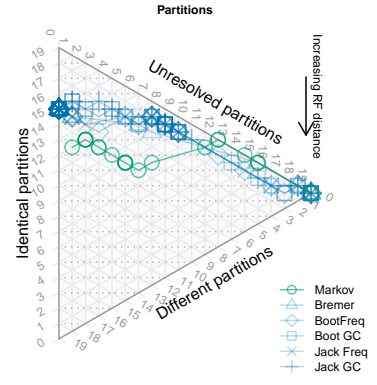
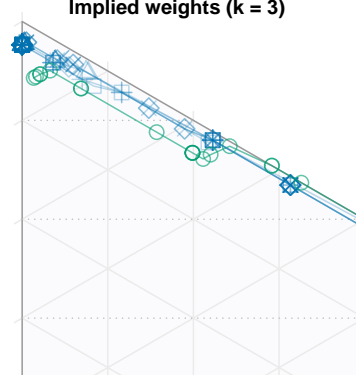




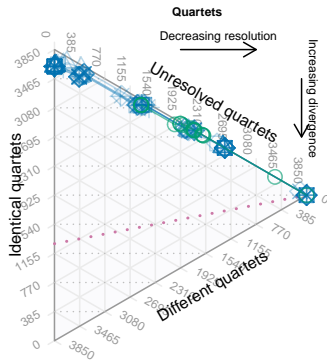
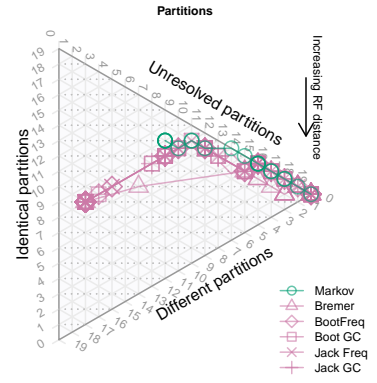
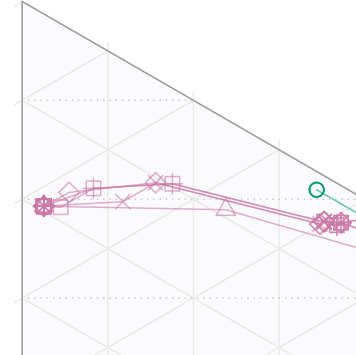
Dataset 39: CI=0.25. Equal weights



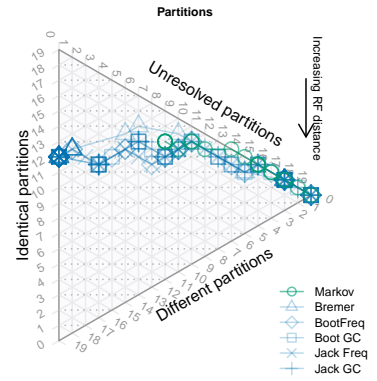
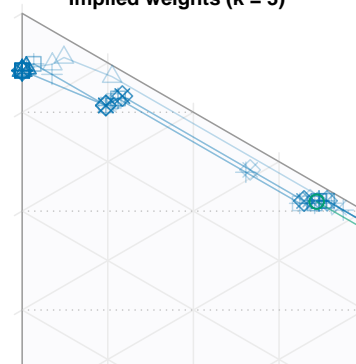
Implied weights (k = 3)



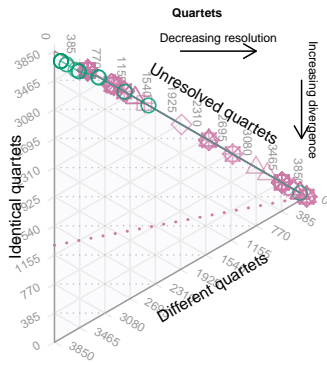
Dataset 40: CI=0.24. Equal weights



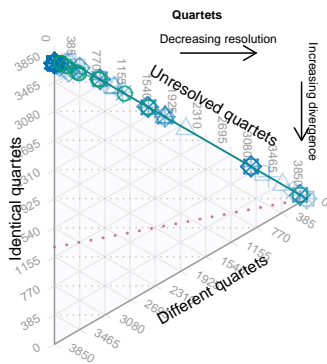
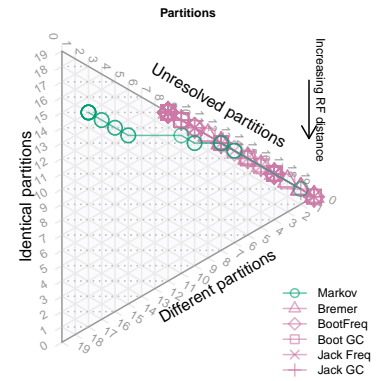
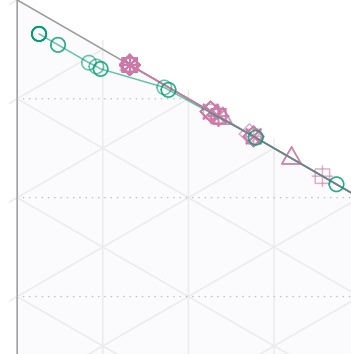
Implied weights (k = 3)



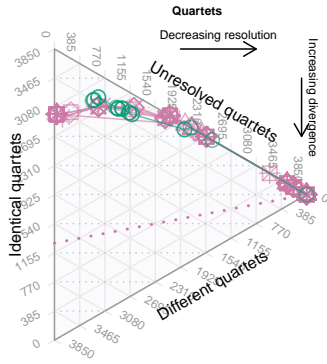
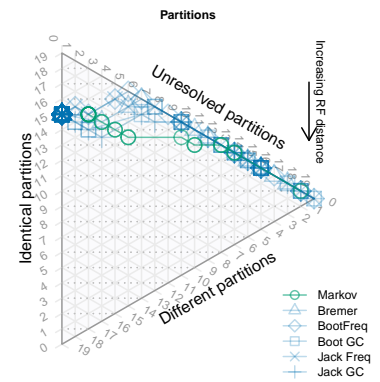
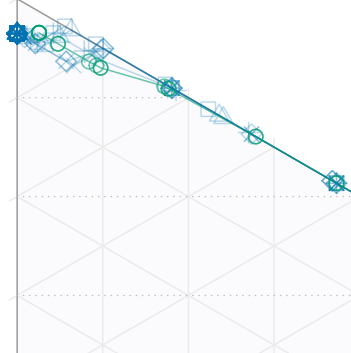
0.6 Trees 41–50



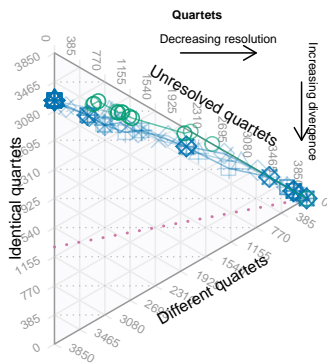
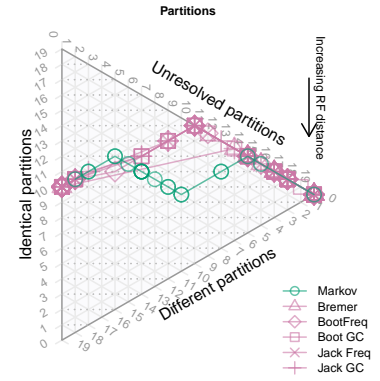
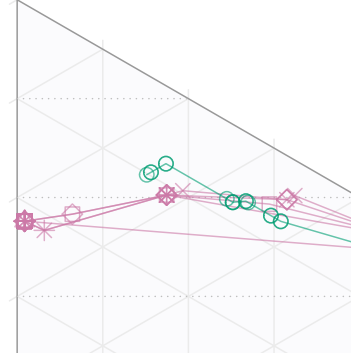
Dataset 41: CI=0.3. Equal weights



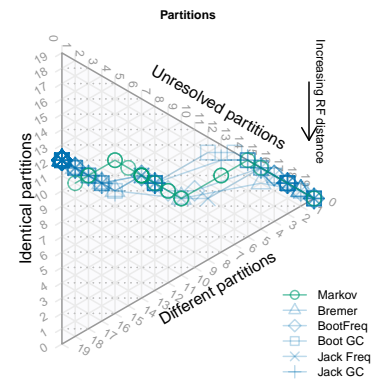
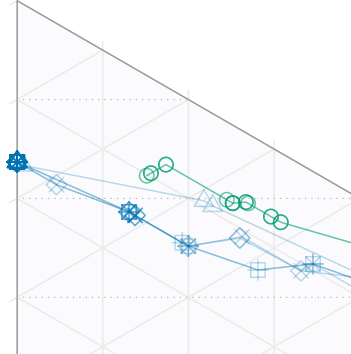
Implied weights (k = 3)

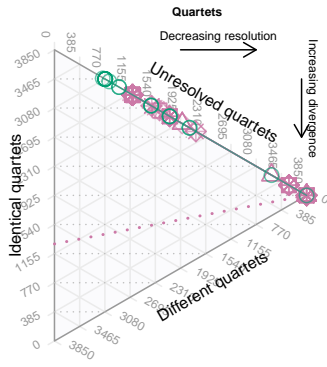


Dataset 42: CI=0.24. Equal weights

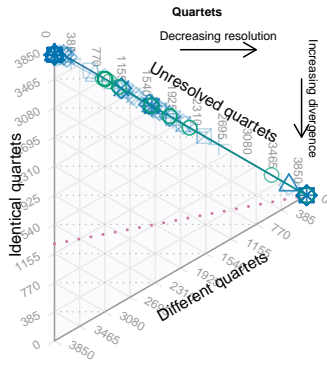
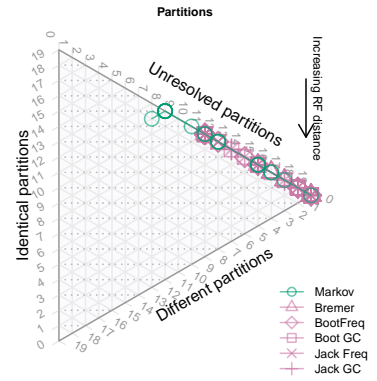
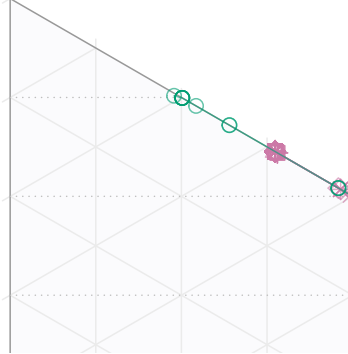


Implied weights (k = 3)

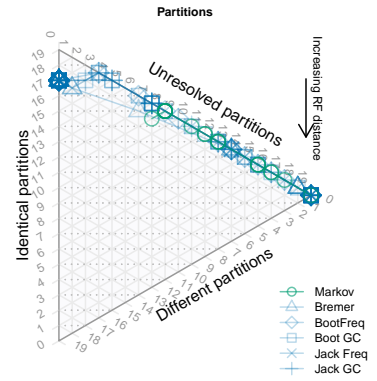
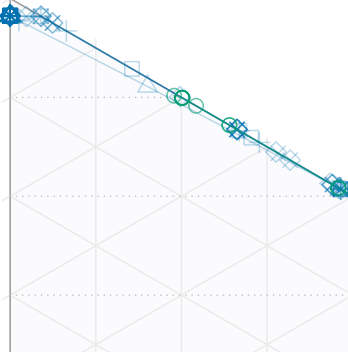




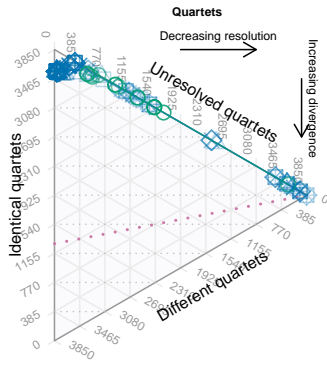
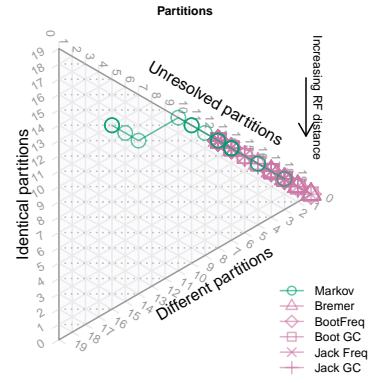
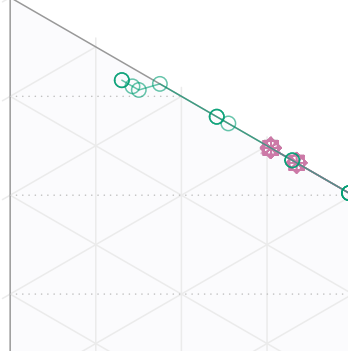
Dataset 43: CI=0.27. Equal weights



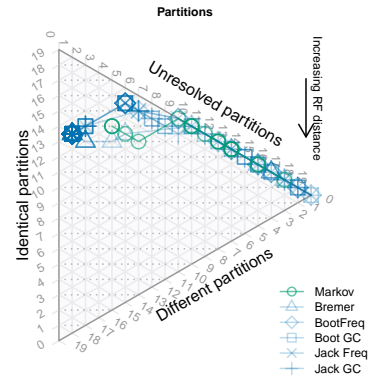
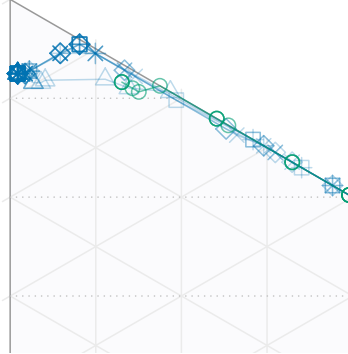
Implied weights (k = 3)

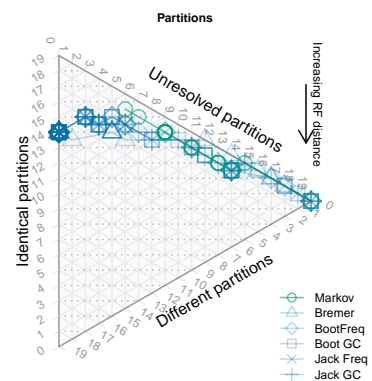
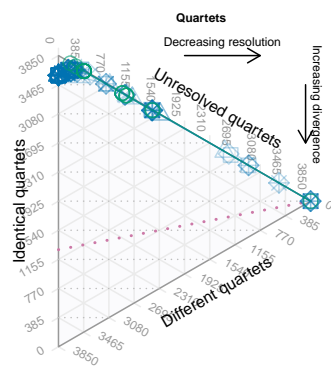
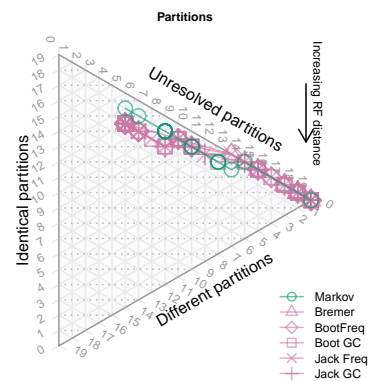
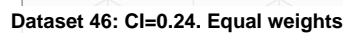
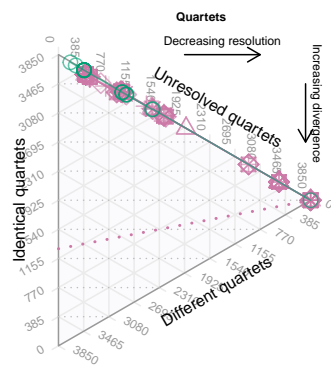
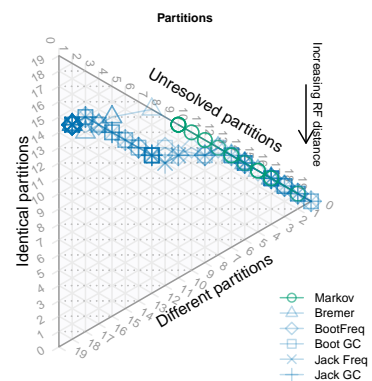
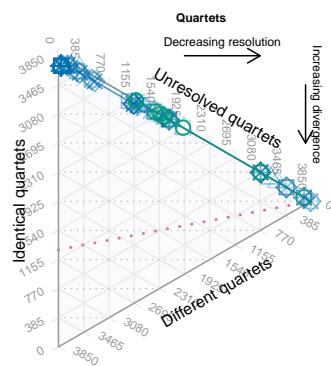
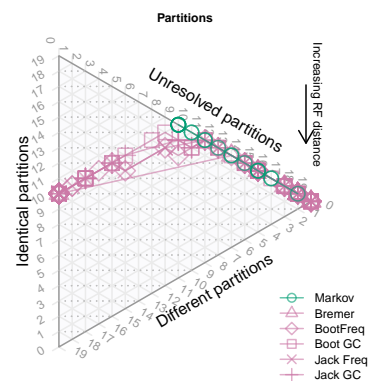
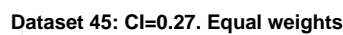
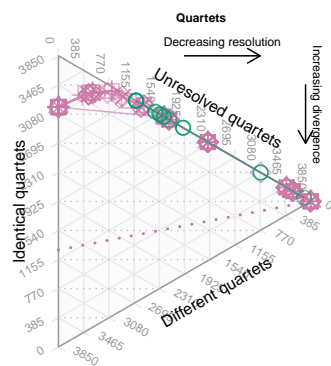


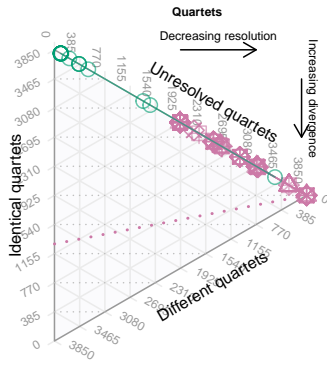
Dataset 44: CI=0.27. Equal weights



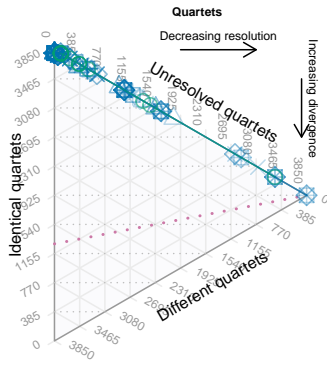
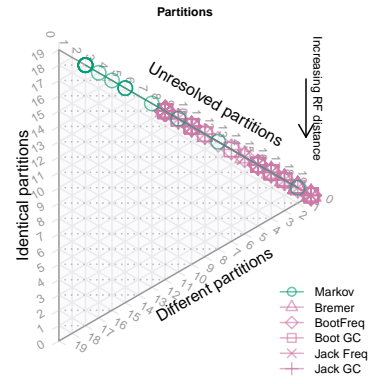
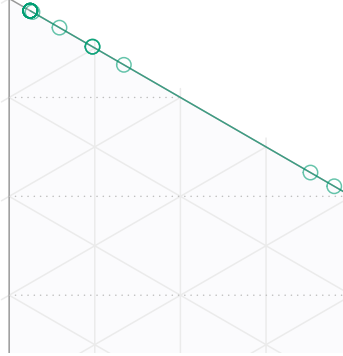
Implied weights (k = 3)



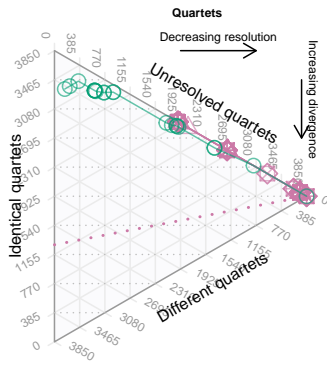
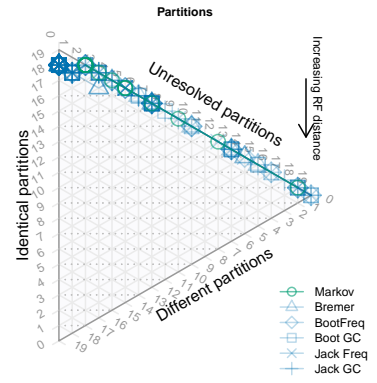
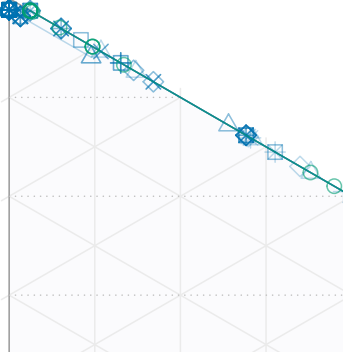




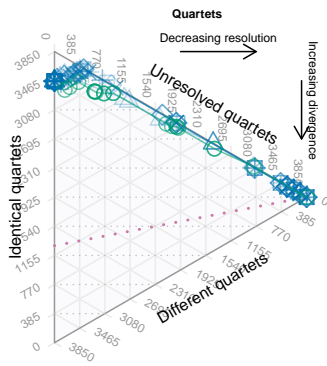
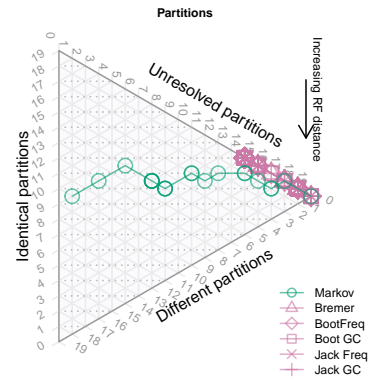
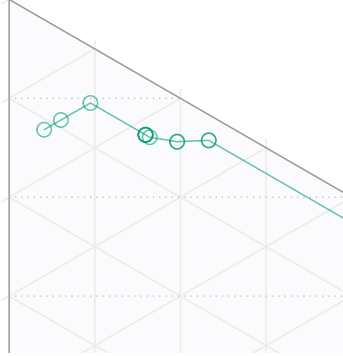
Dataset 47: CI=0.29. Equal weights



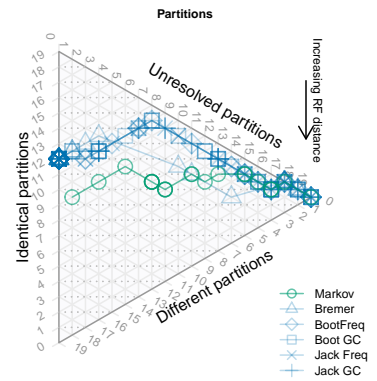
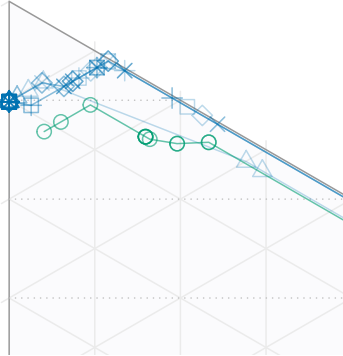
Implied weights (k = 3)

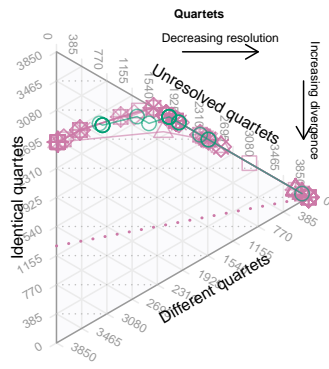


Dataset 48: CI=0.27. Equal weights

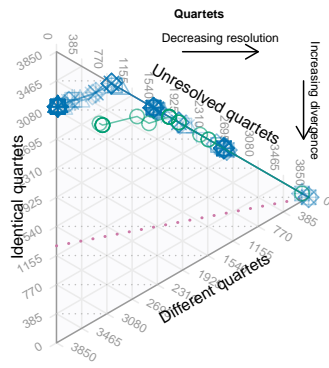
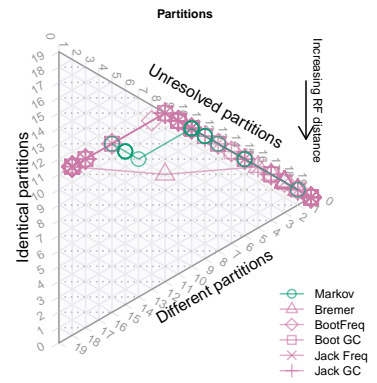
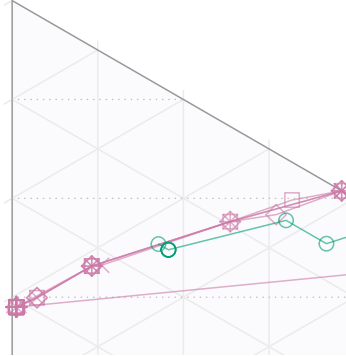


Implied weights (k = 3)

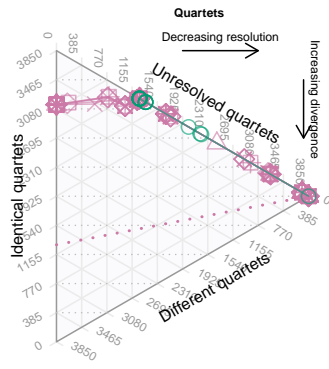
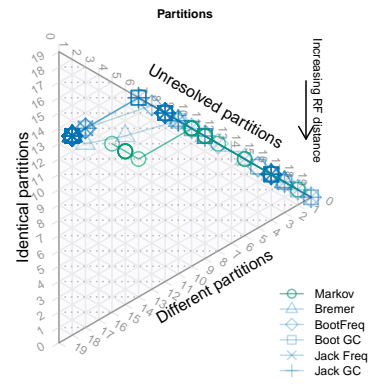
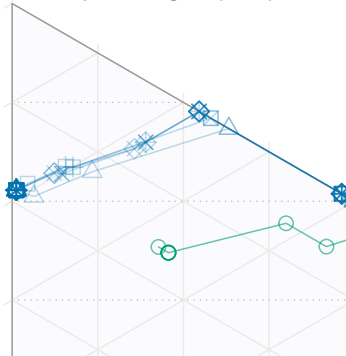




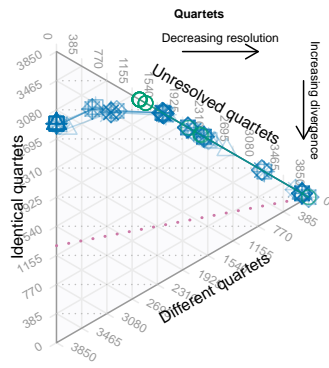
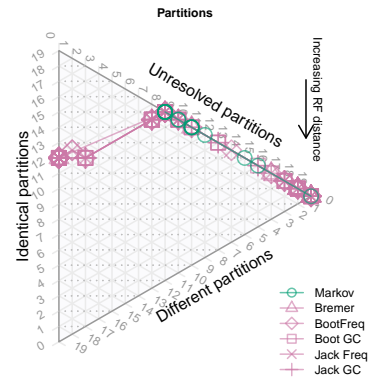
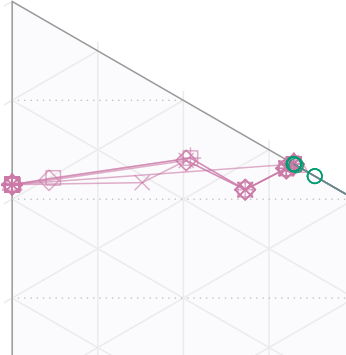
Dataset 49: CI=0.28. Equal weights



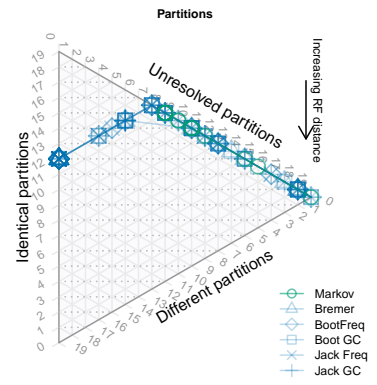
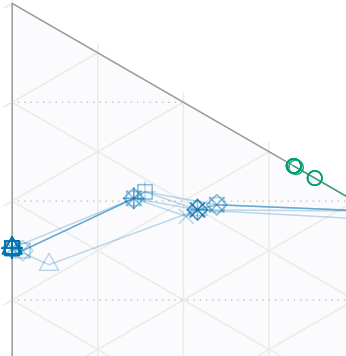
Implied weights (k = 3)



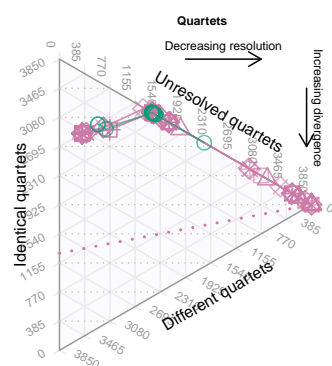
Dataset 50: CI=0.25. Equal weights



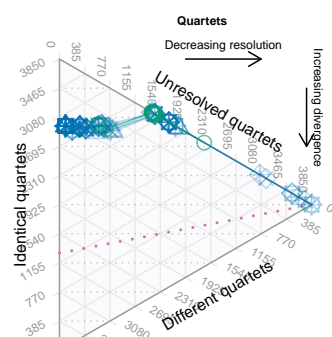
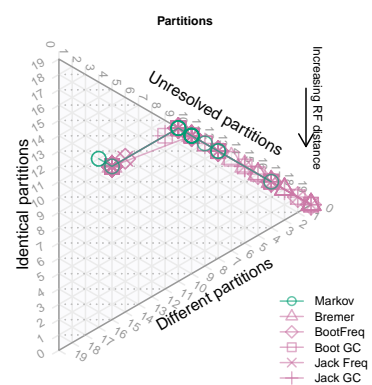
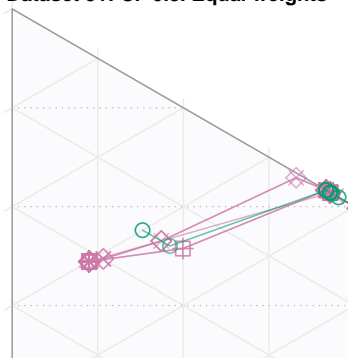
Implied weights (k = 3)



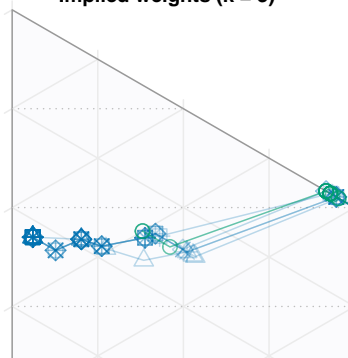
0.7 Trees 51–60



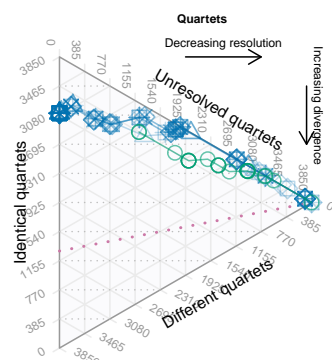
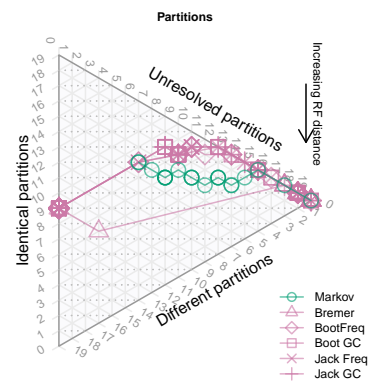
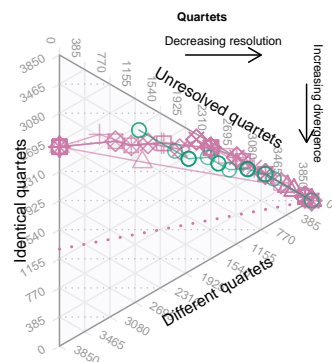
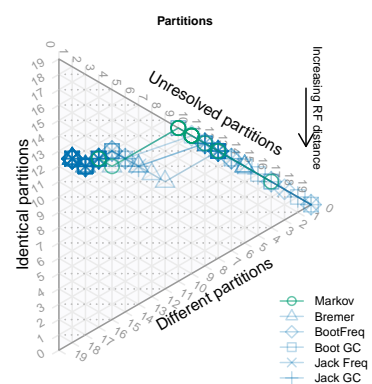
Dataset 51: CI=0.3. Equal weights



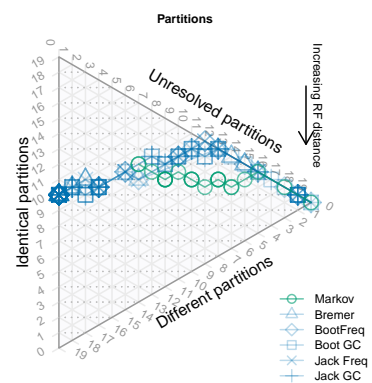
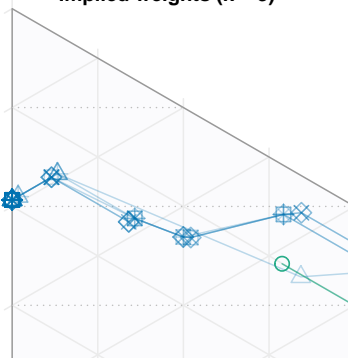
Implied weights (k = 3)

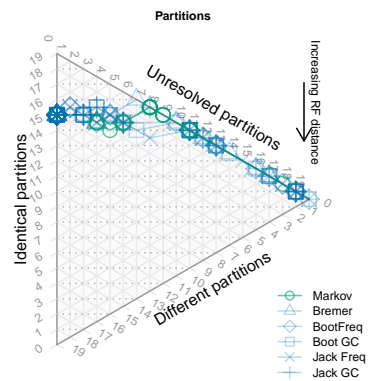
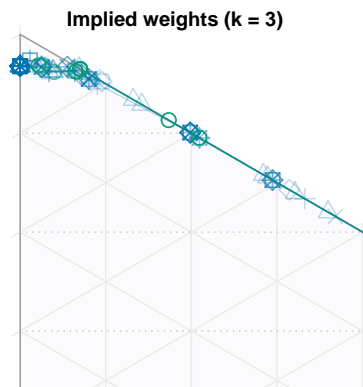
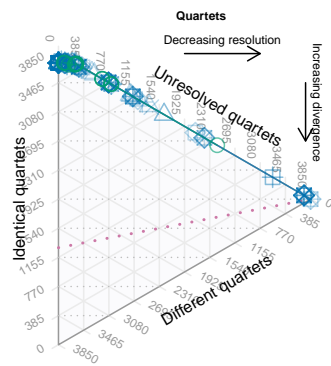
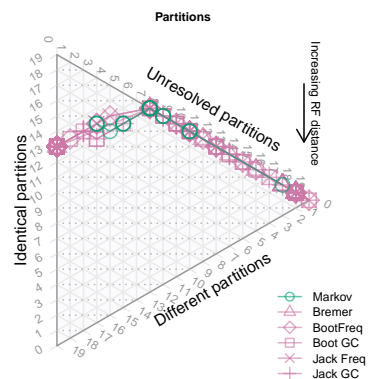
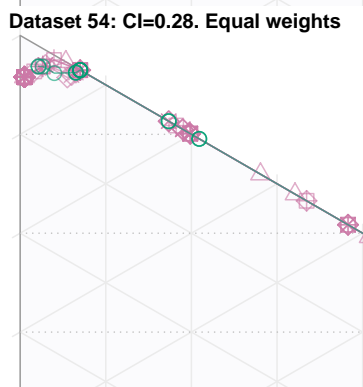
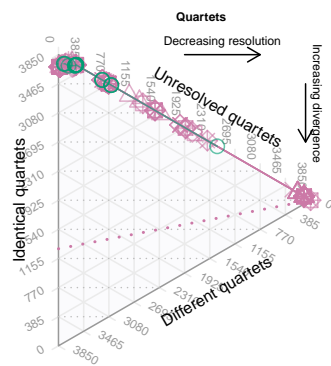
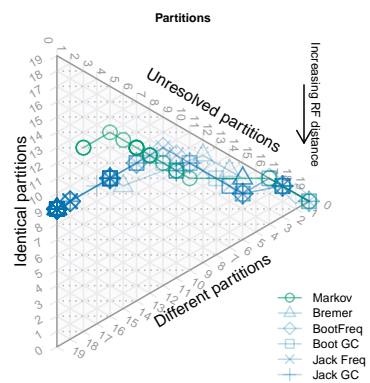
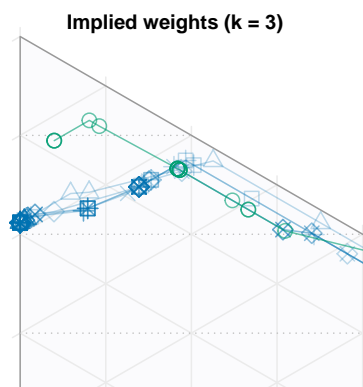
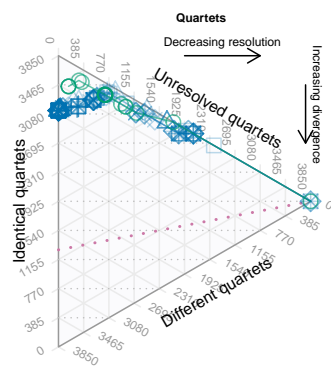
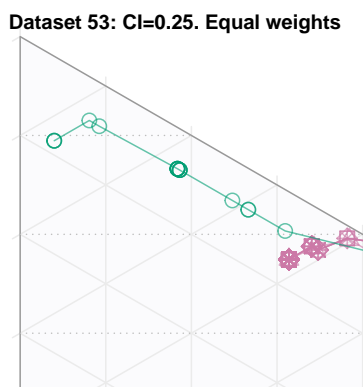


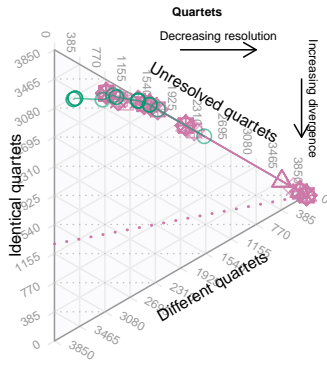
Dataset 52: CI=0.25. Equal weights



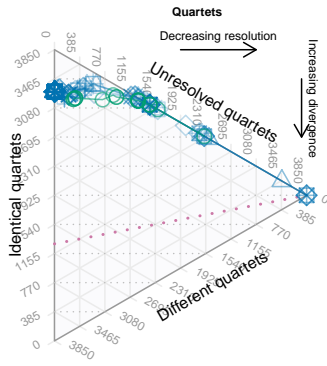
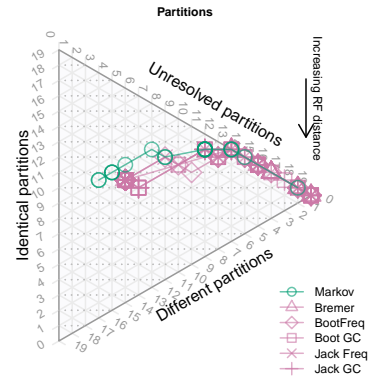
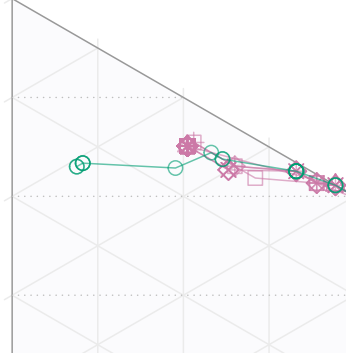
Implied weights (k = 3)



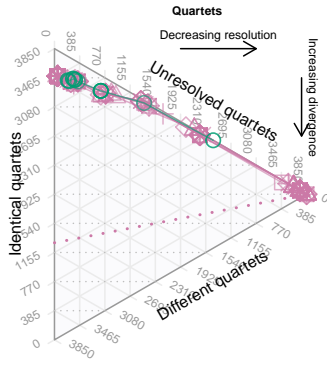
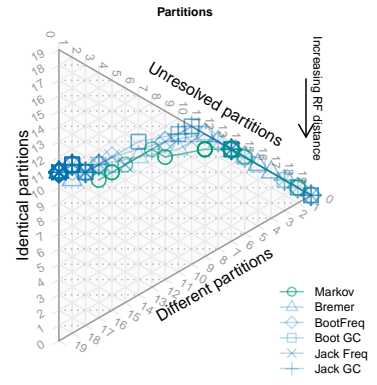
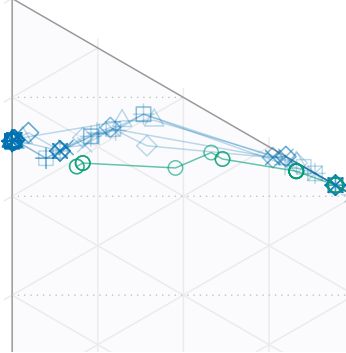




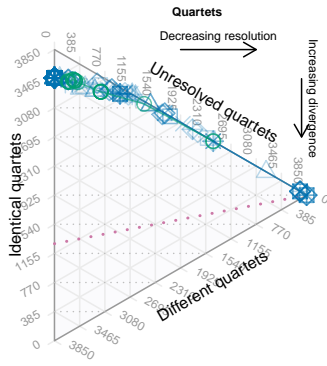
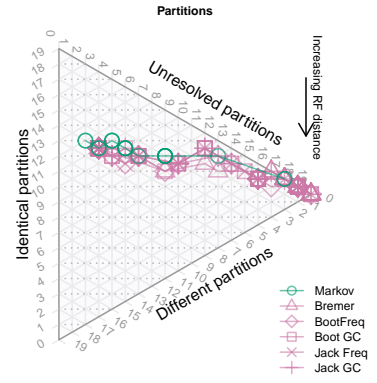
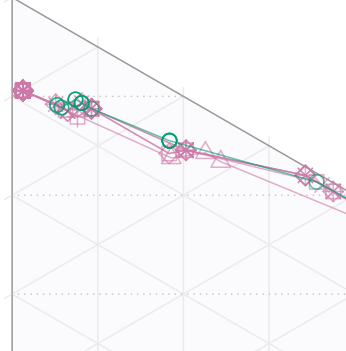
Dataset 57: CI=0.25. Equal weights



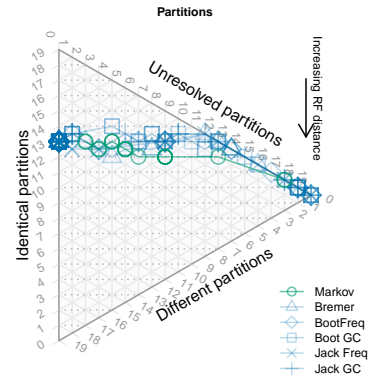
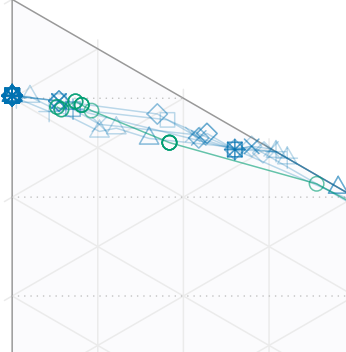
Implied weights (k = 3)

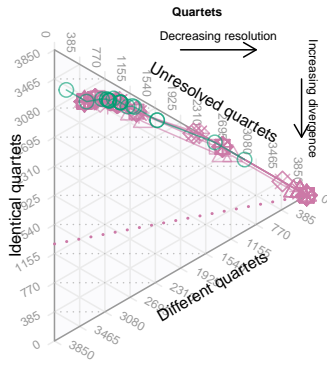


Dataset 58: CI=0.25. Equal weights

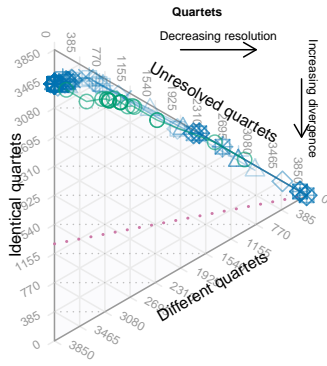
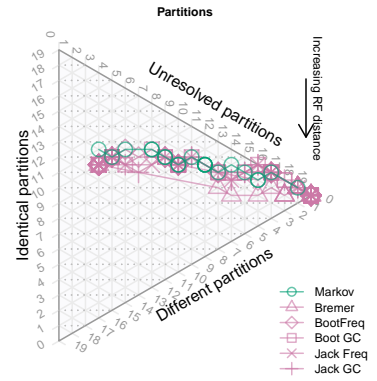
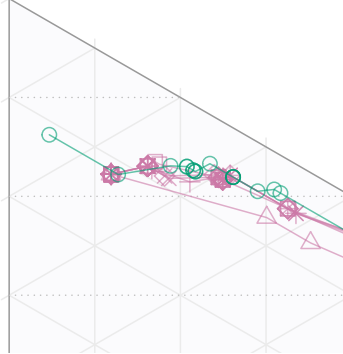


Implied weights (k = 3)

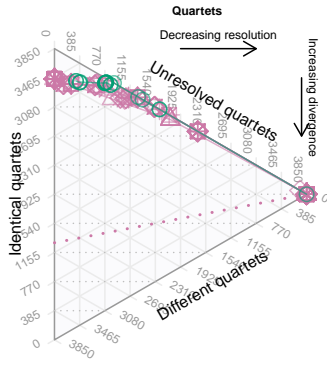
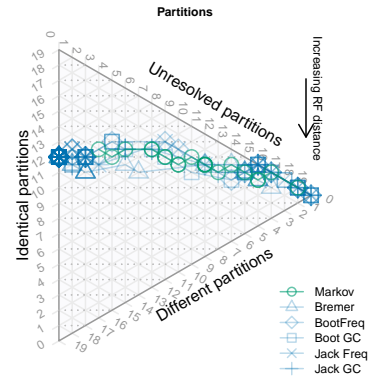
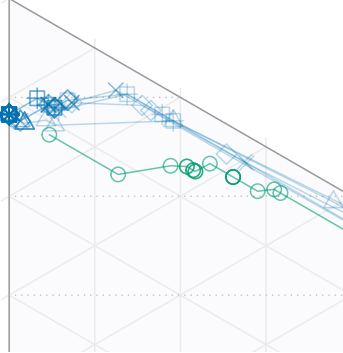




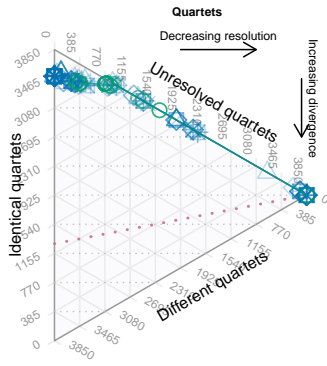
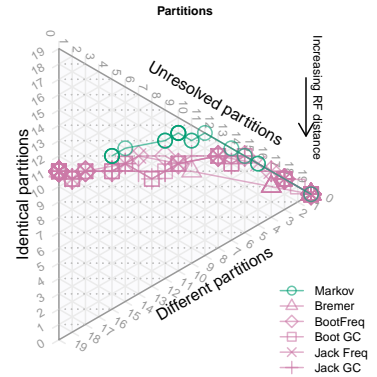
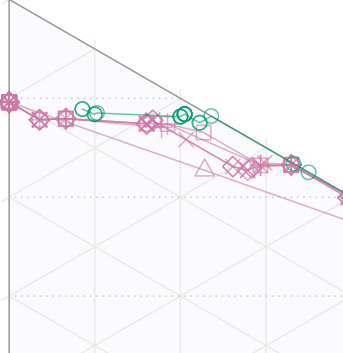
Dataset 59: CI=0.26. Equal weights



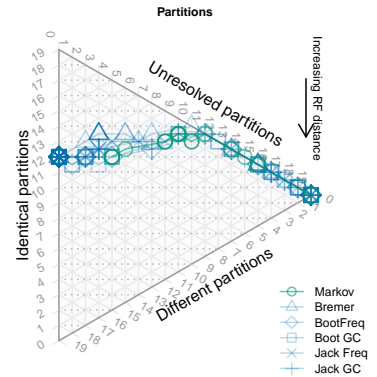
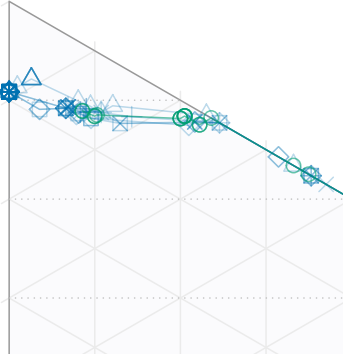
Implied weights (k = 3)



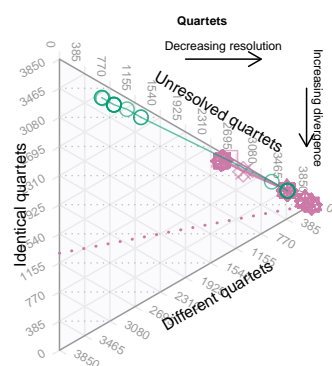
Dataset 60: CI=0.24. Equal weights



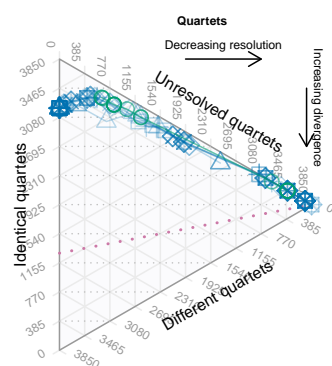
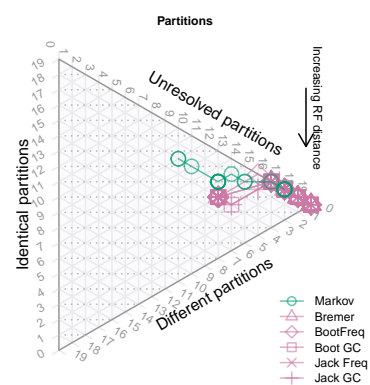
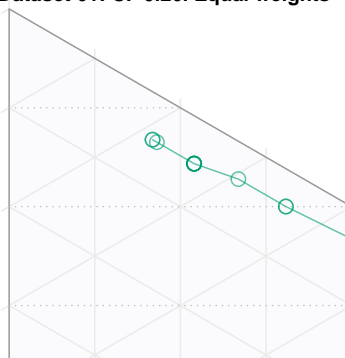
Implied weights (k = 3)



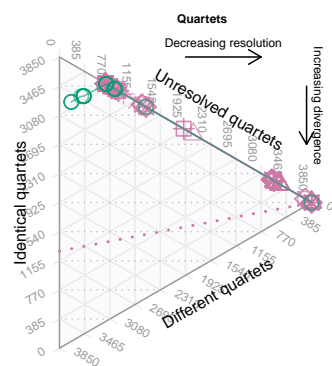
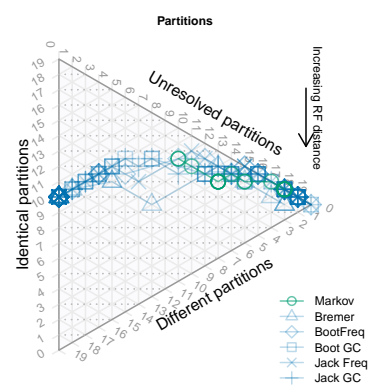
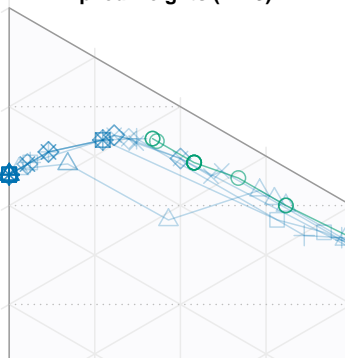
0.8 Trees 61–70



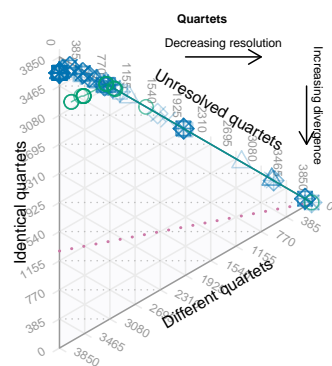
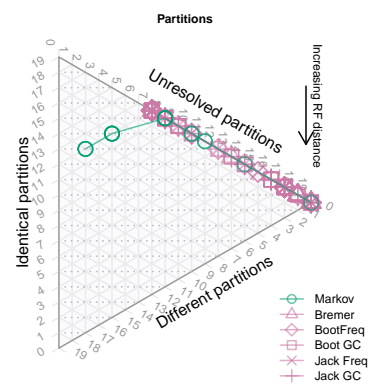
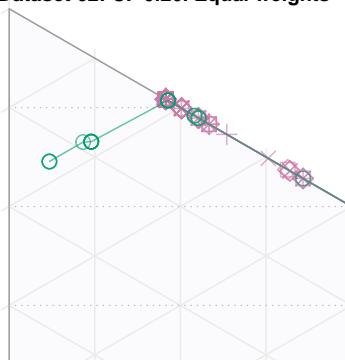
Dataset 61: CI=0.26. Equal weights



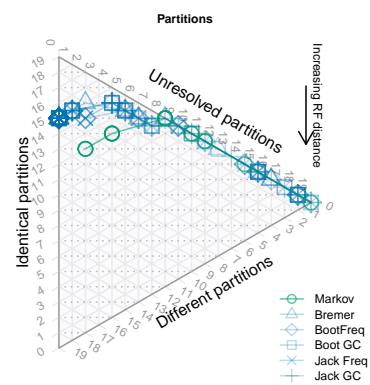
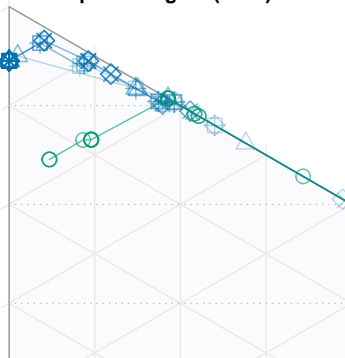
Implied weights (k = 3)

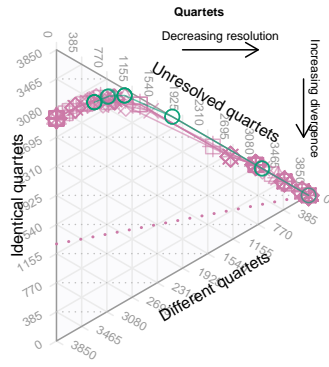


Dataset 62: CI=0.26. Equal weights

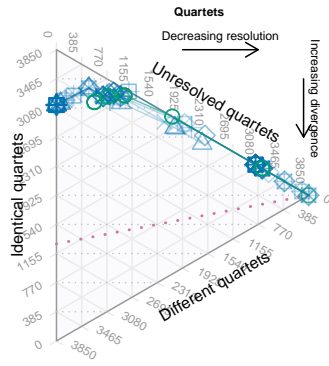
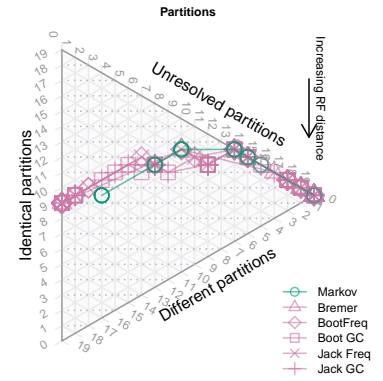


Implied weights (k = 3)

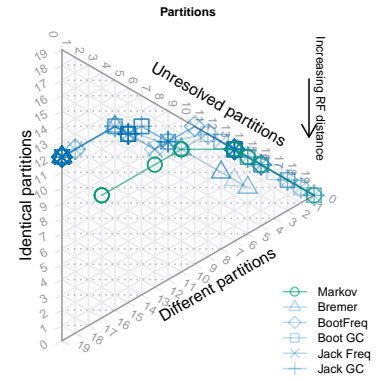
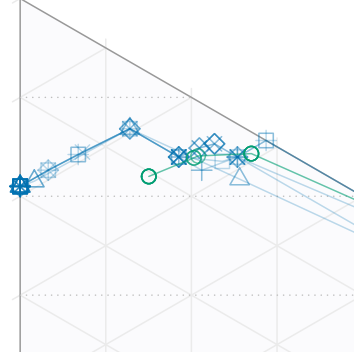




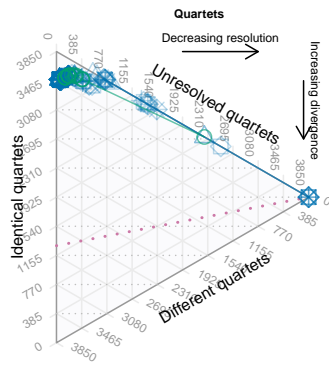
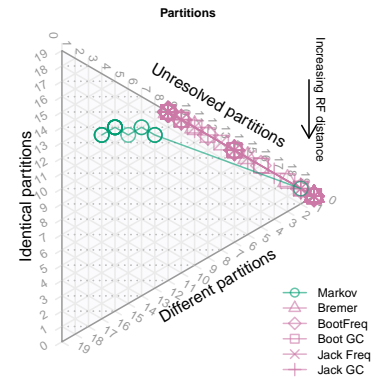
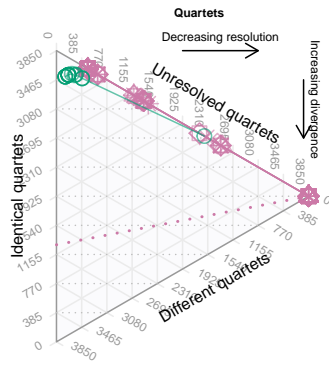
Dataset 63: CI=0.24. Equal weights



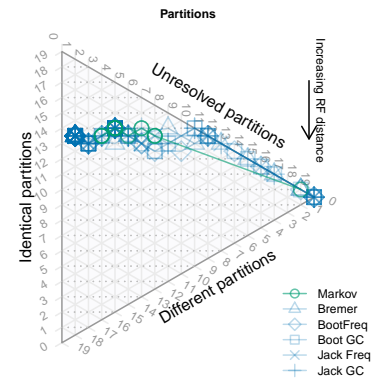
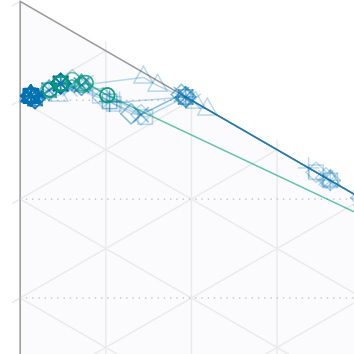
Implied weights (k = 3)

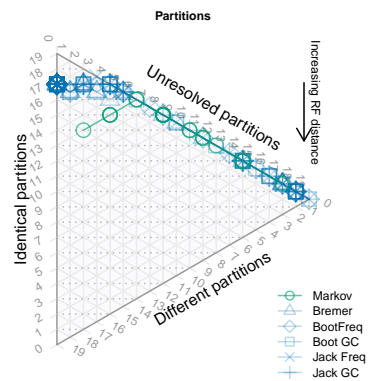
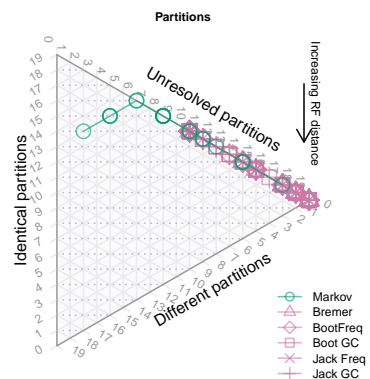
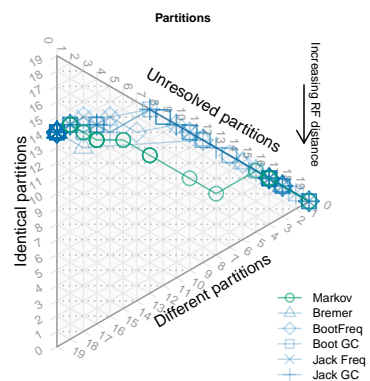
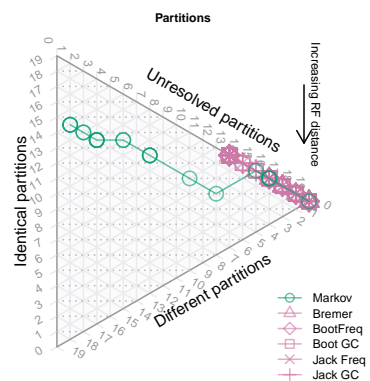


Dataset 64: CI=0.29. Equal weights

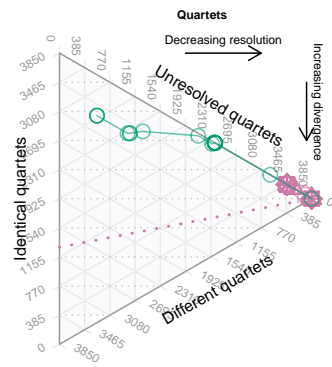


Implied weights (k = 3)

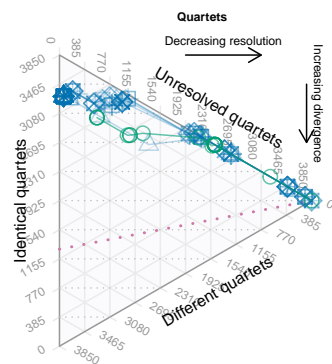
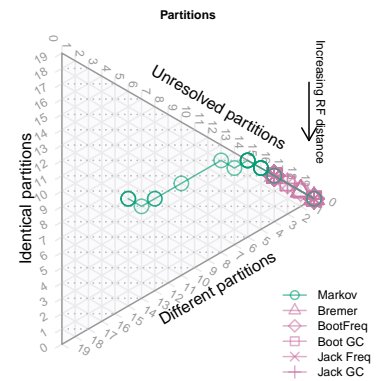
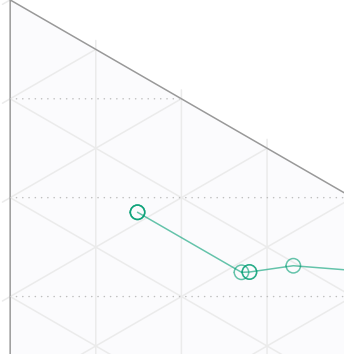




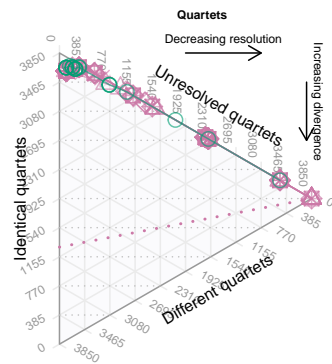
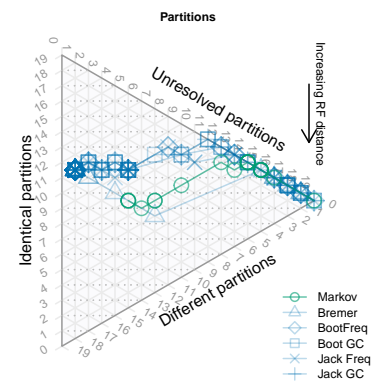
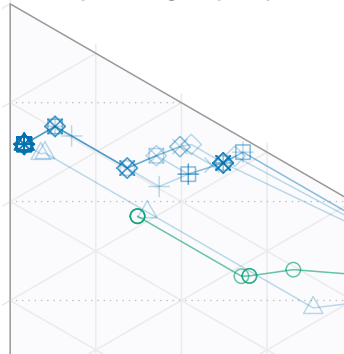
0.9 Trees 71–80



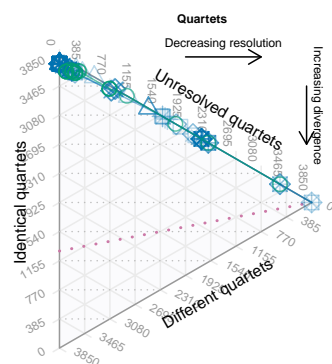
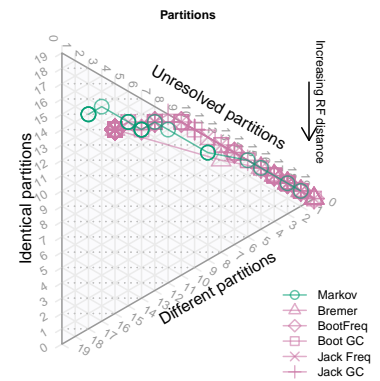
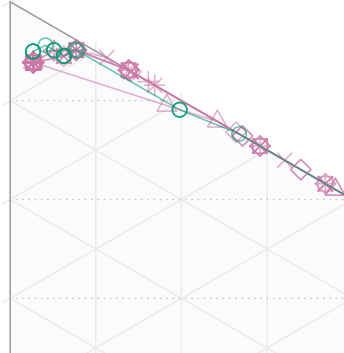
Dataset 71: CI=0.27. Equal weights



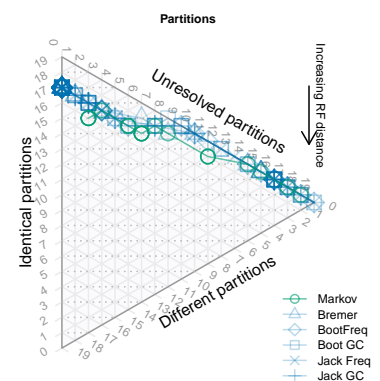
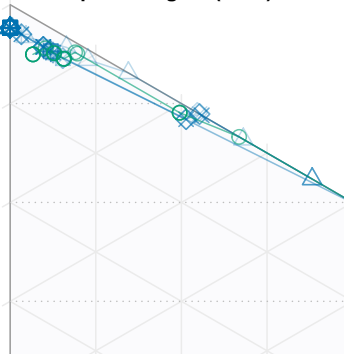
Implied weights (k = 3)

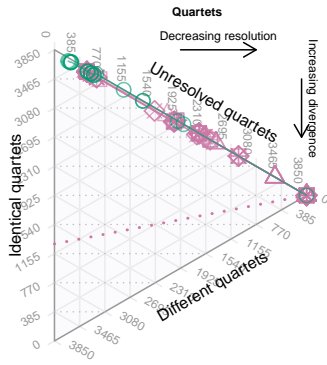


Dataset 72: CI=0.29. Equal weights

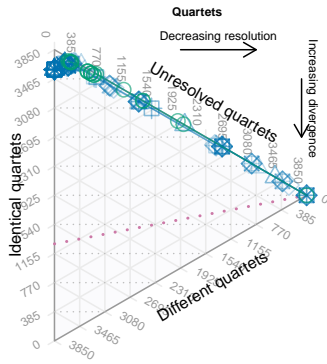
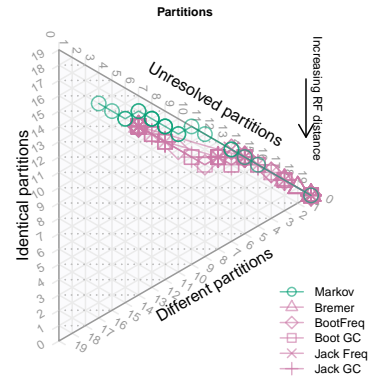
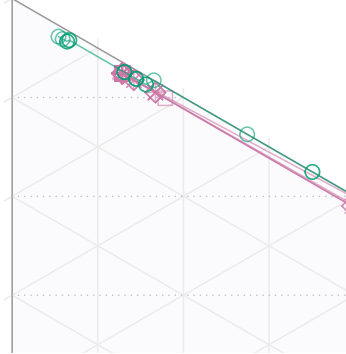


Implied weights (k = 3)

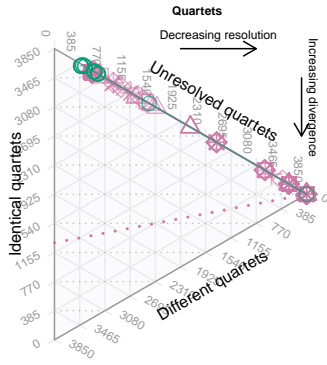
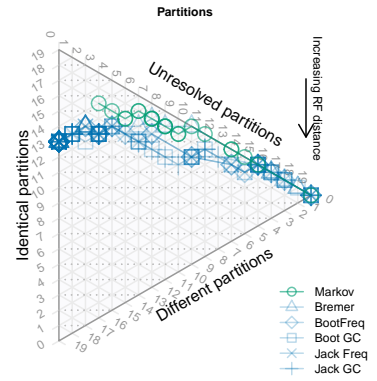
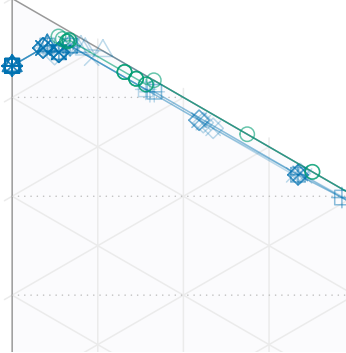




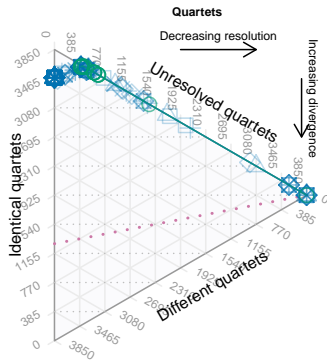
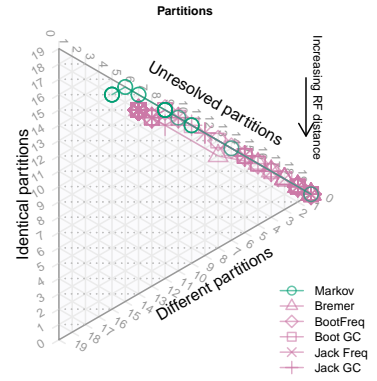
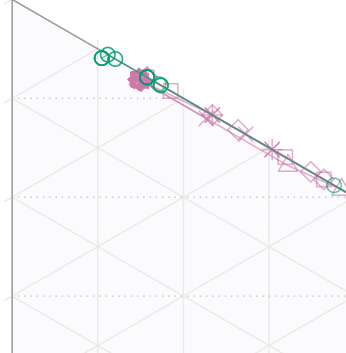
Dataset 73: CI=0.28. Equal weights



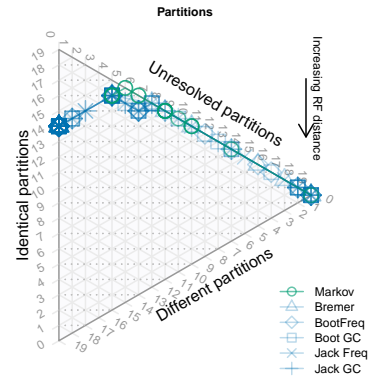
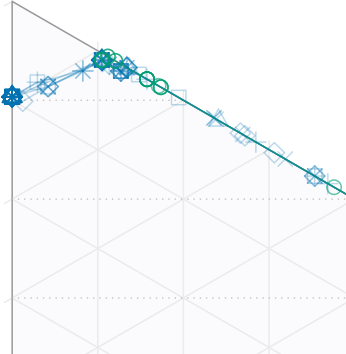
Implied weights (k = 3)

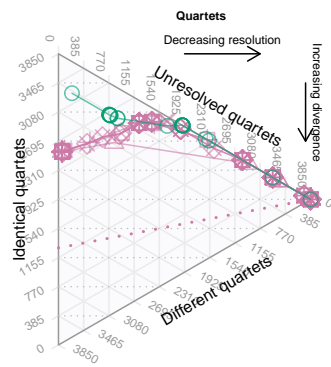


Dataset 74: CI=0.28. Equal weights

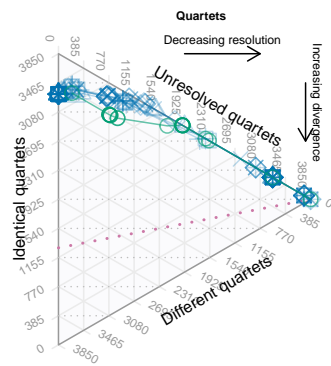
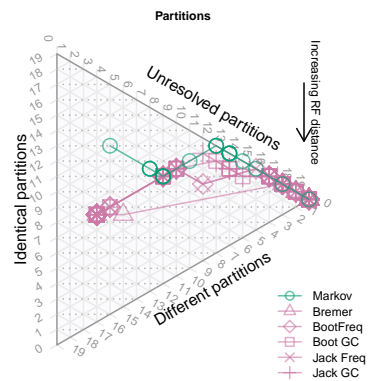
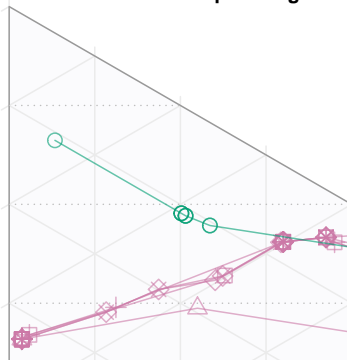


Implied weights (k = 3)

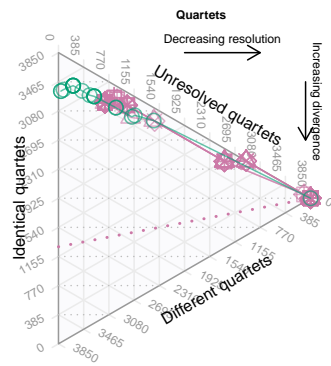
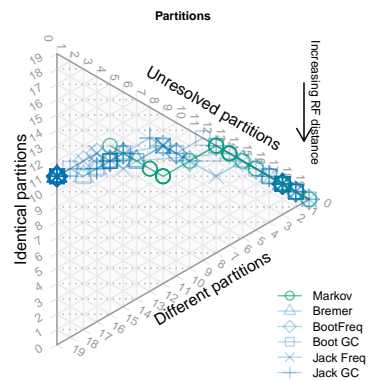
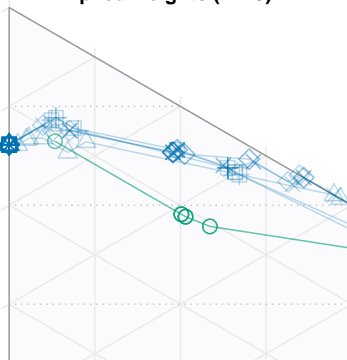




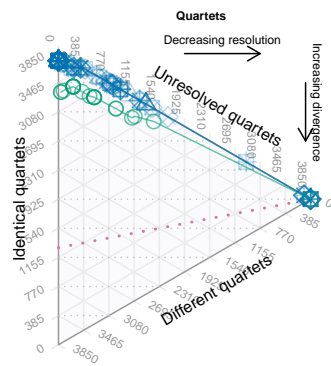
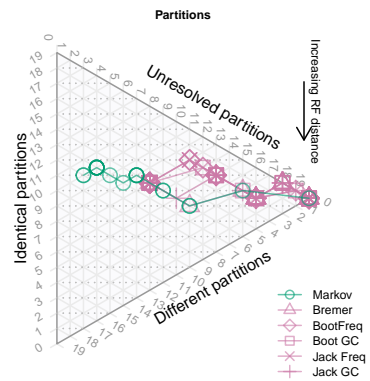
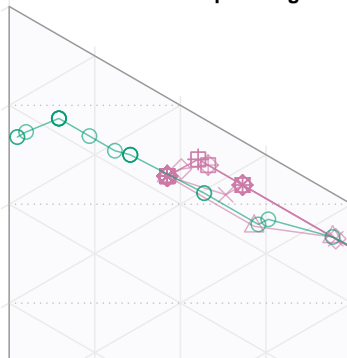
Dataset 75: CI=0.24. Equal weights



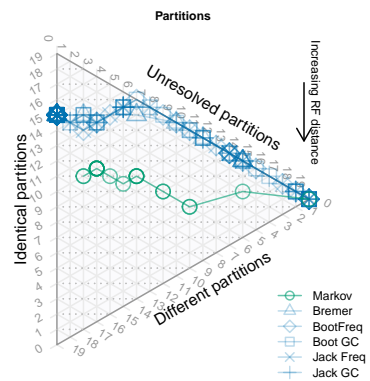
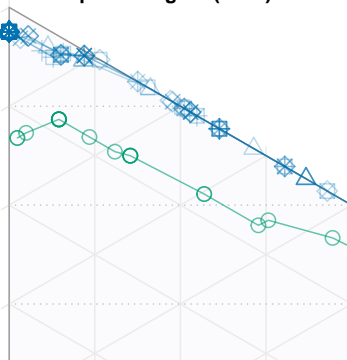
Implied weights (k = 3)

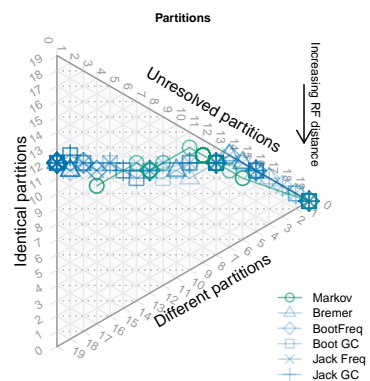
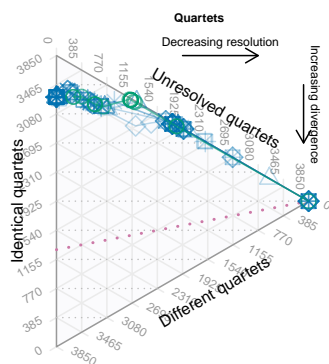
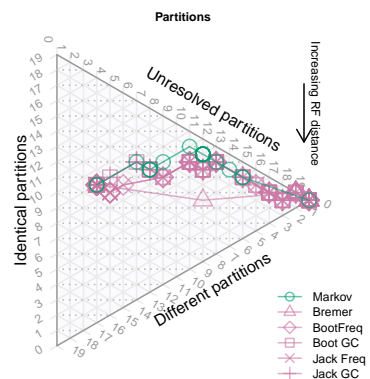
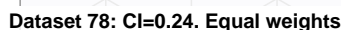
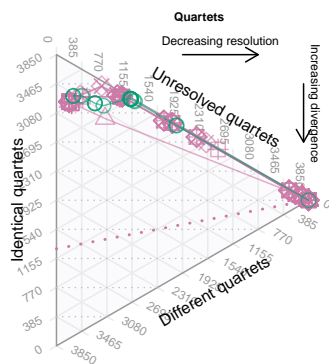
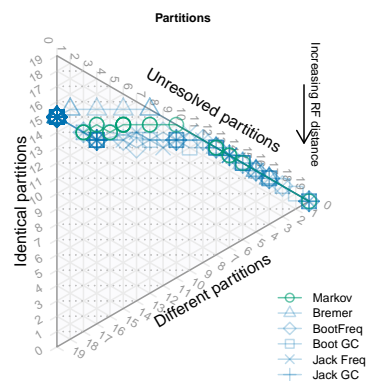
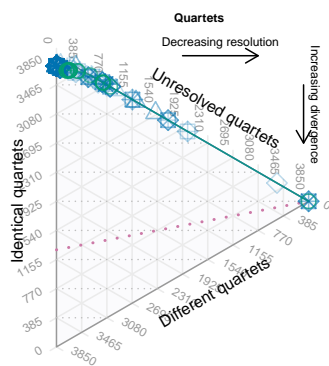
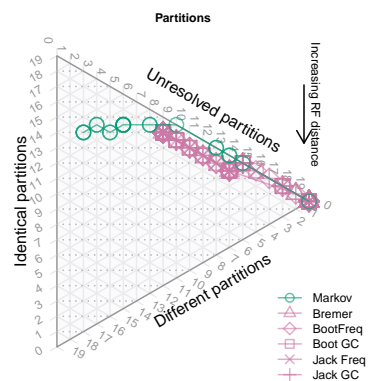
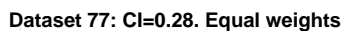
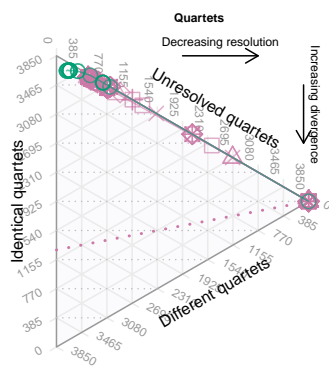


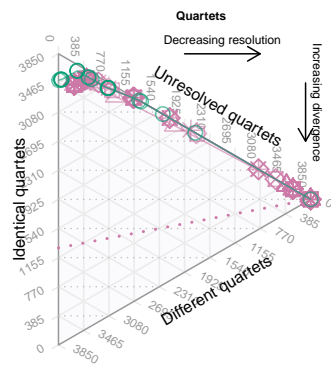
Dataset 76: CI=0.26. Equal weights



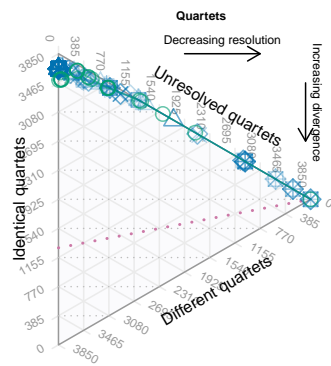
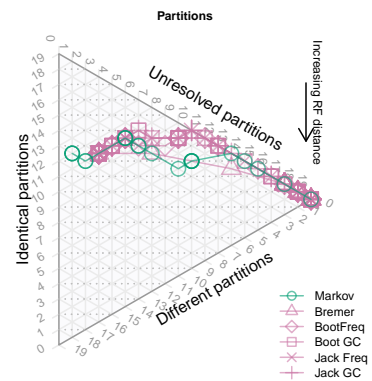
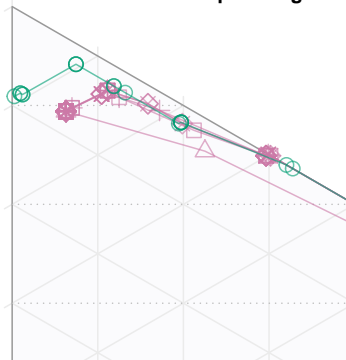
Implied weights (k = 3)



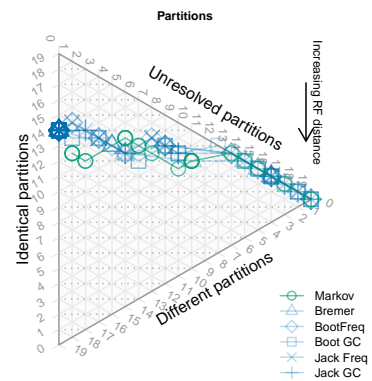
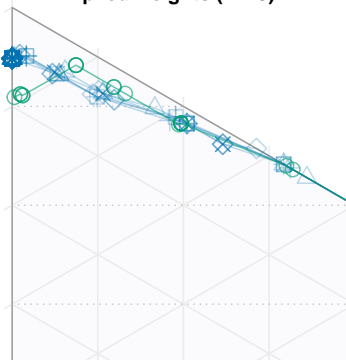




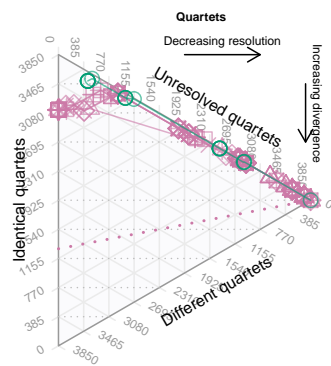
Dataset 79: CI=0.24. Equal weights



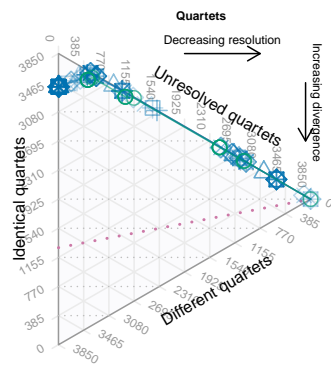
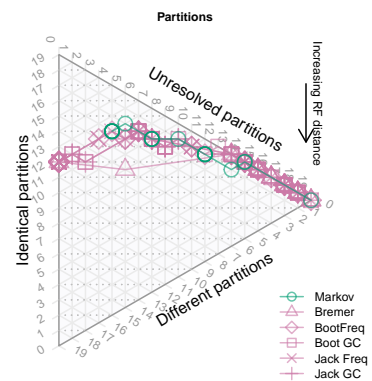
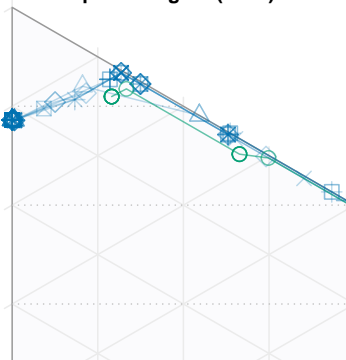
Implied weights ($k = 3$)



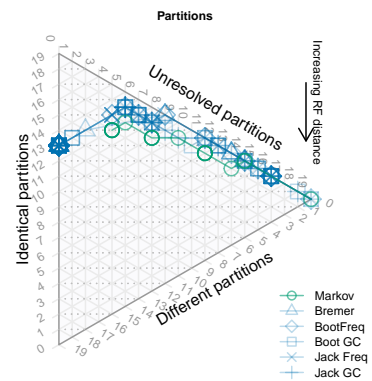
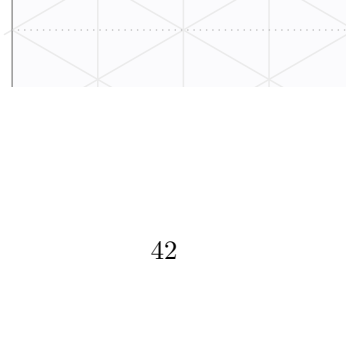
Dataset 80: CI=0.27. Equal weights



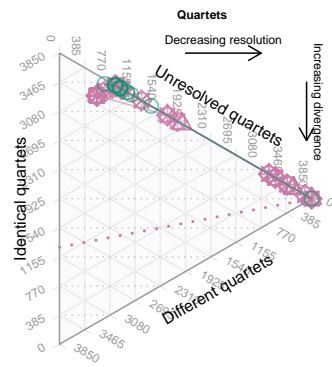
Implied weights ($k = 3$)



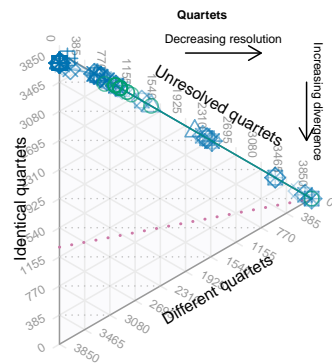
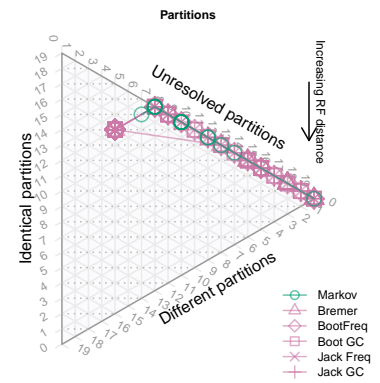
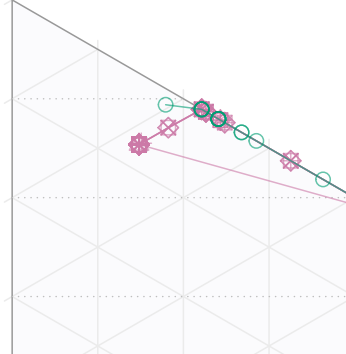
Implied weights ($k = 3$)



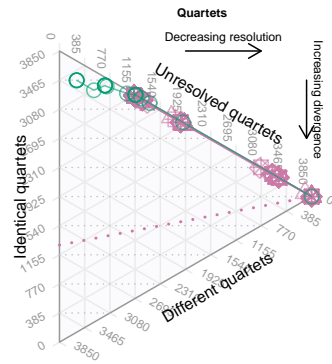
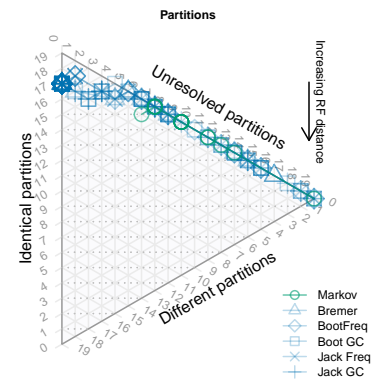
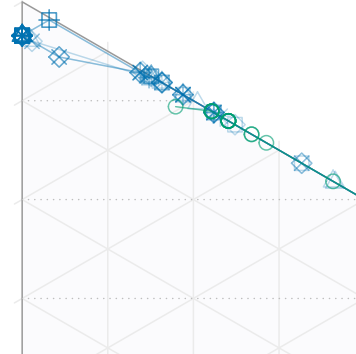
0.10 Trees 81–90



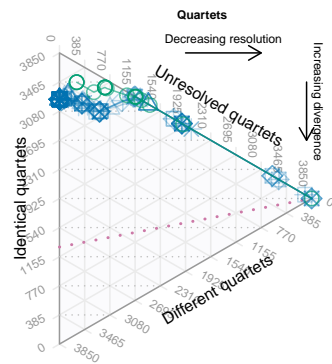
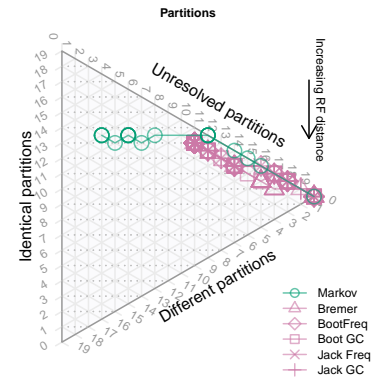
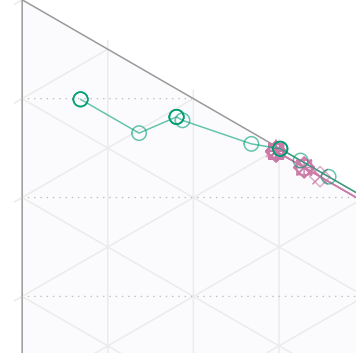
Dataset 81: CI=0.27. Equal weights



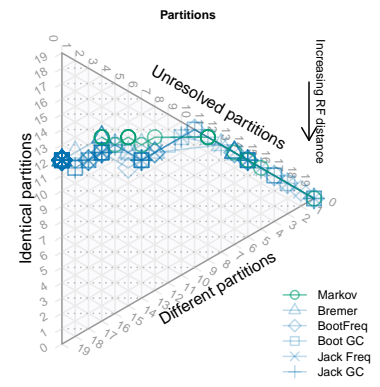
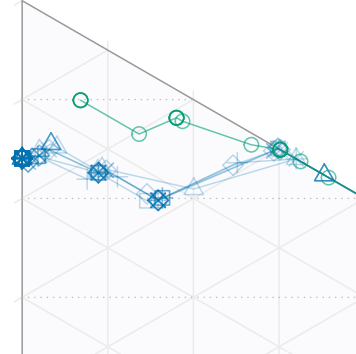
Implied weights (k = 3)

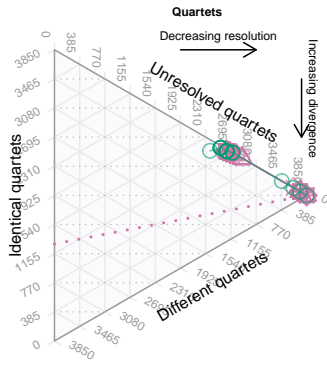


Dataset 82: CI=0.28. Equal weights

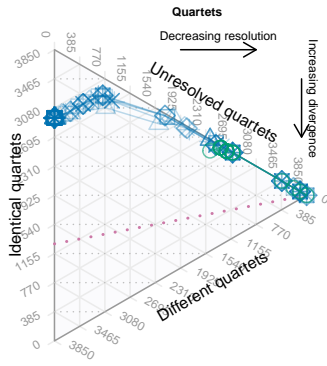
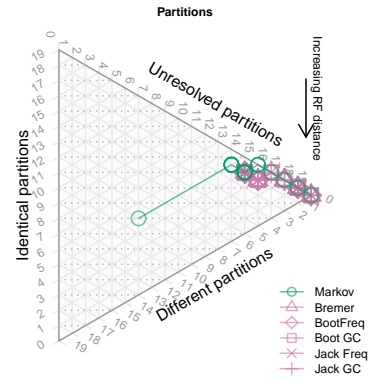


Implied weights (k = 3)

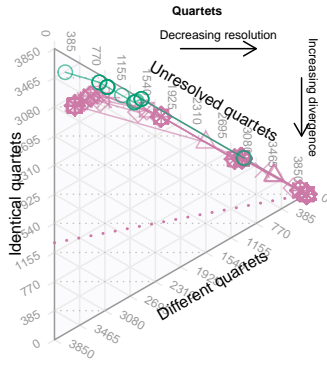
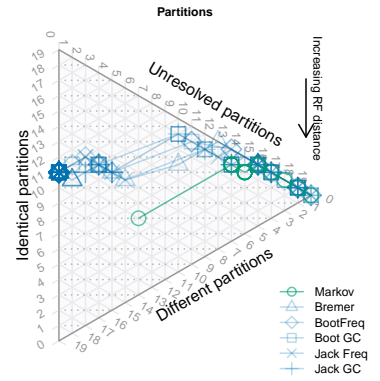




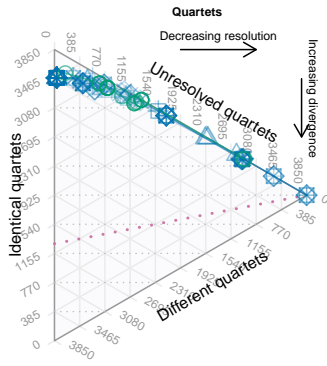
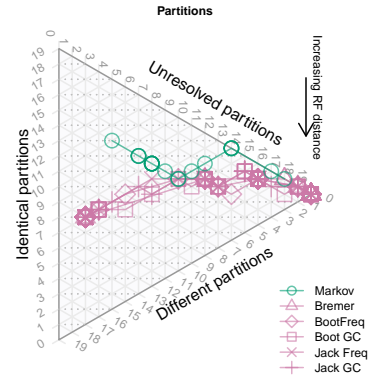
Dataset 83: CI=0.25. Equal weights



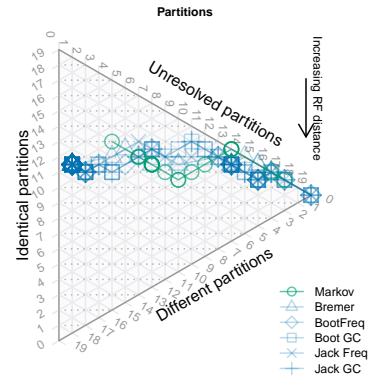
Implied weights (k = 3)

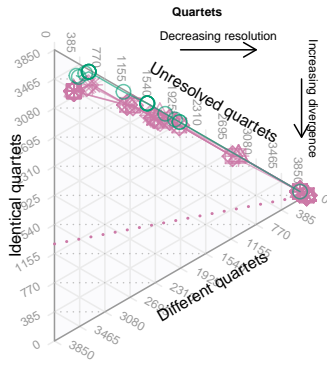


Dataset 84: CI=0.24. Equal weights

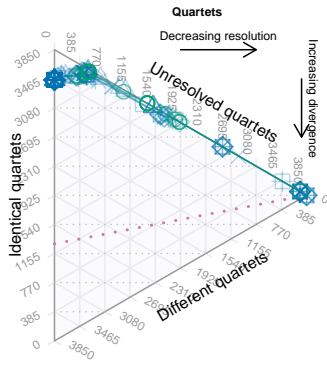
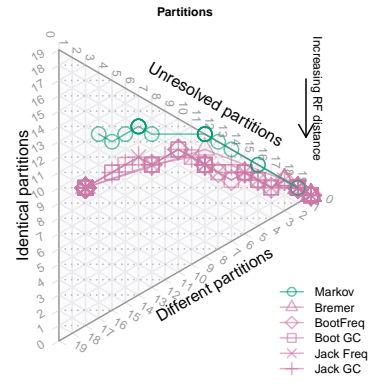


Implied weights (k = 3)

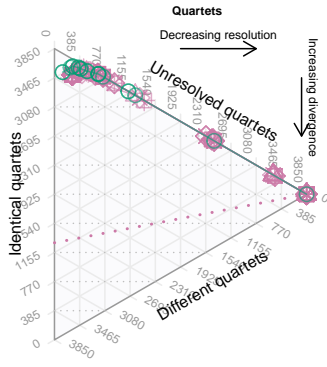
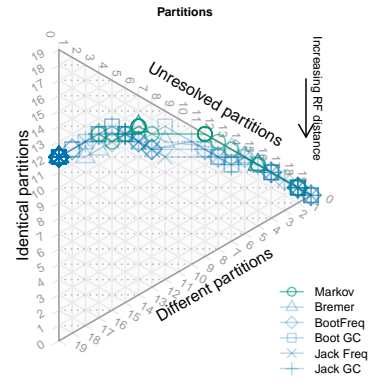
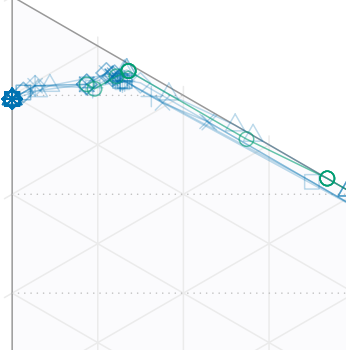




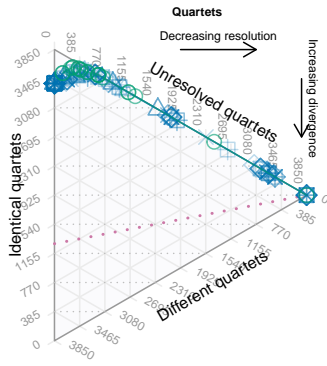
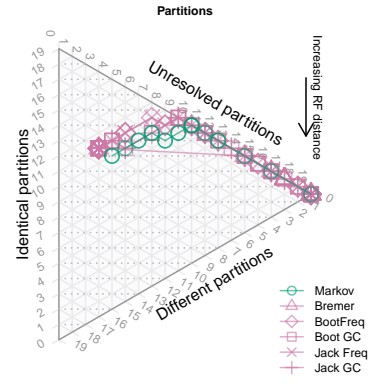
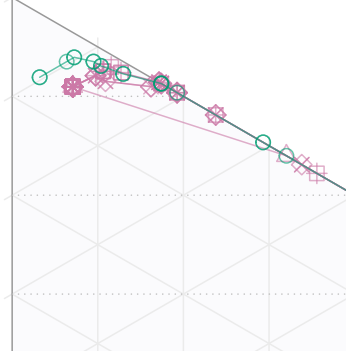
Dataset 85: CI=0.27. Equal weights



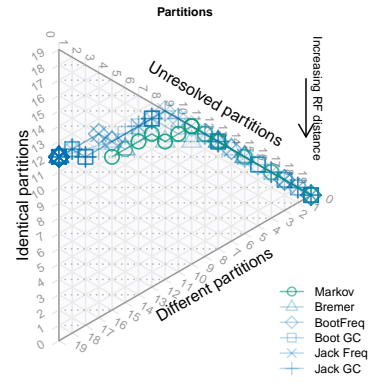
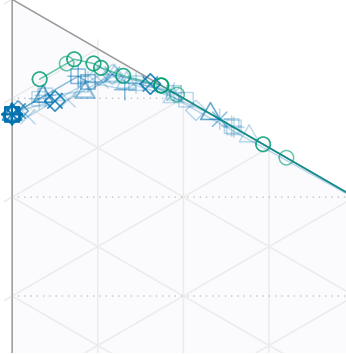
Implied weights (k = 3)

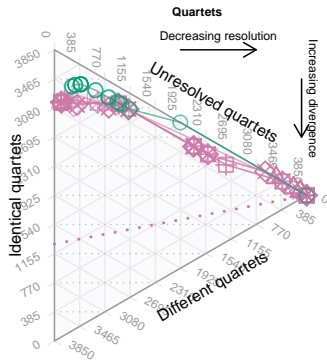


Dataset 86: CI=0.27. Equal weights

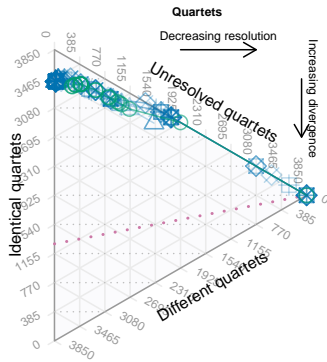
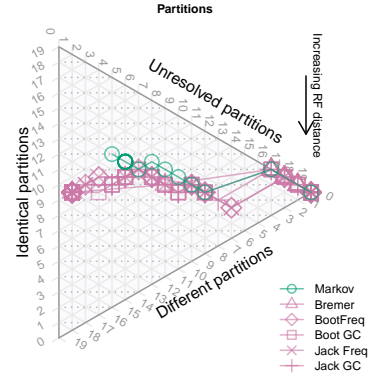
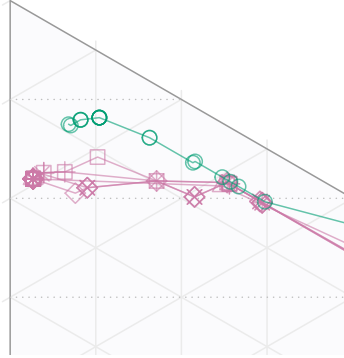


Implied weights (k = 3)

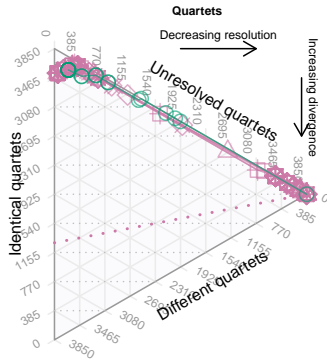
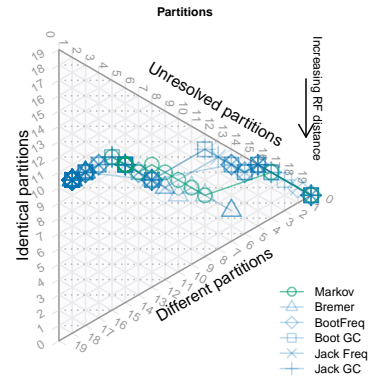
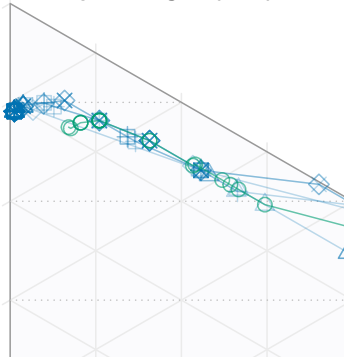




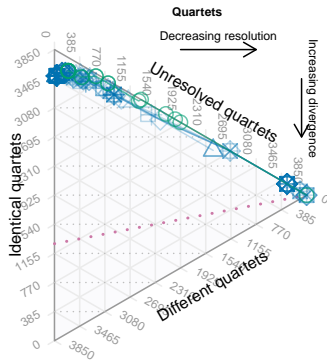
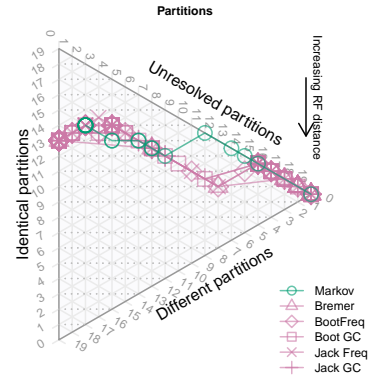
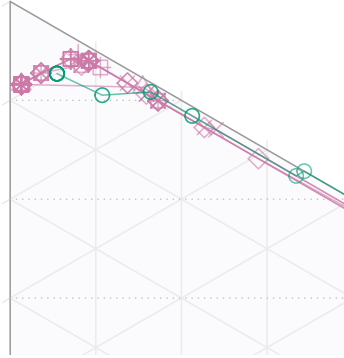
Dataset 87: CI=0.23. Equal weights



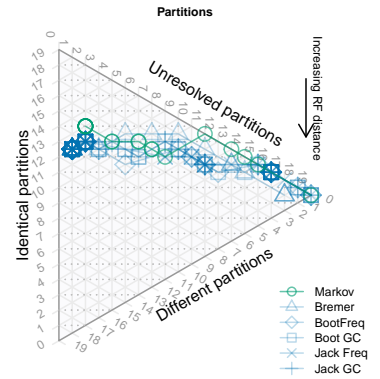
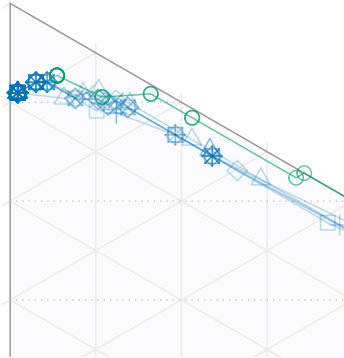
Implied weights (k = 3)

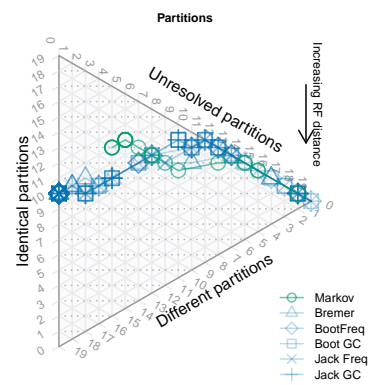
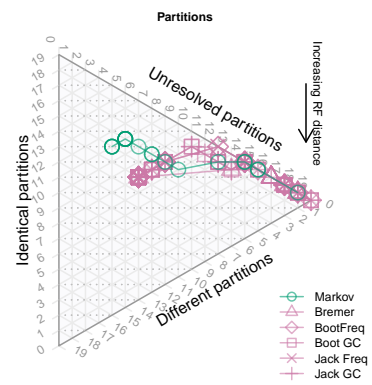
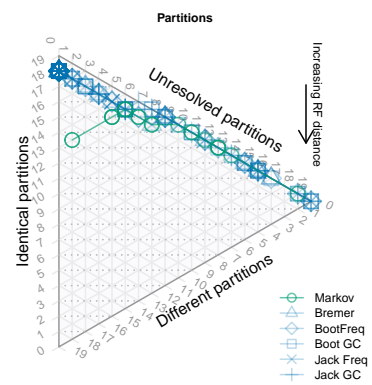
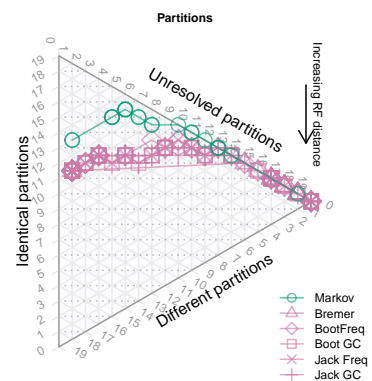


Dataset 88: CI=0.25. Equal weights

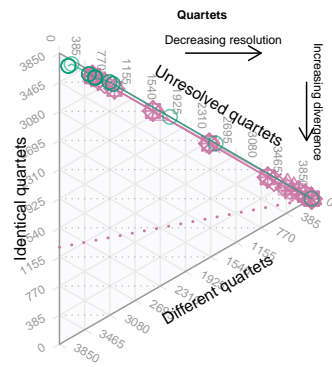


Implied weights (k = 3)

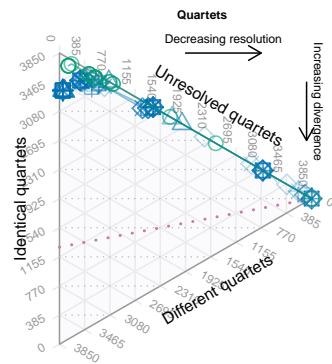
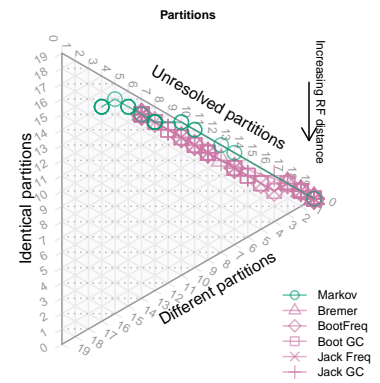
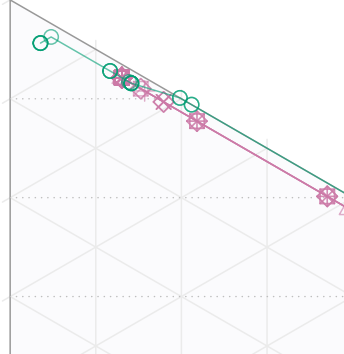




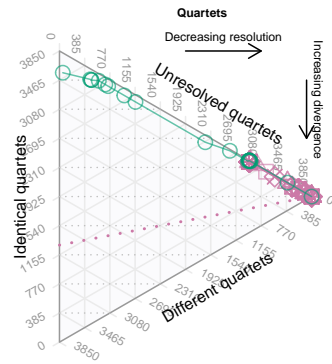
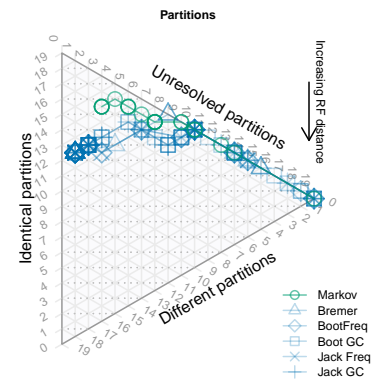
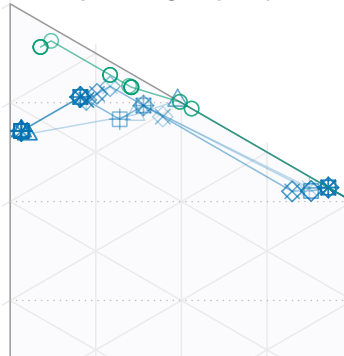
0.11 Trees 91–100



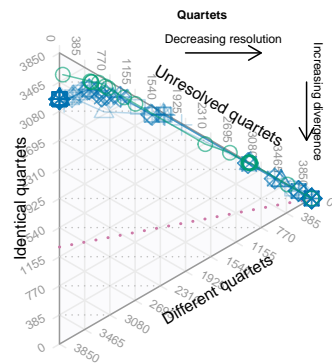
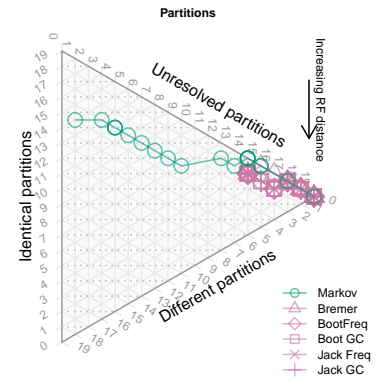
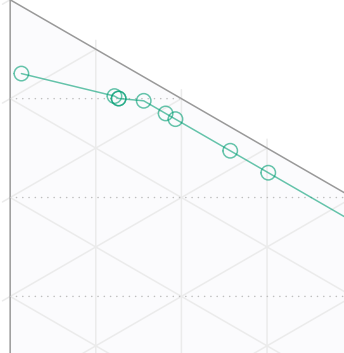
Dataset 91: CI=0.26. Equal weights



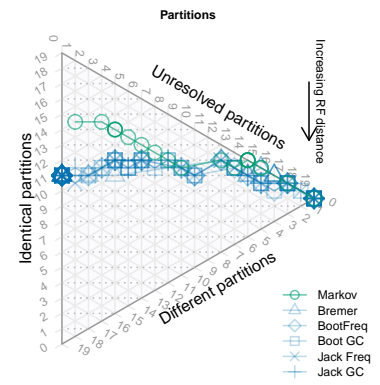
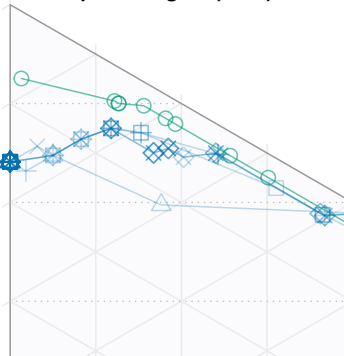
Implied weights (k = 3)

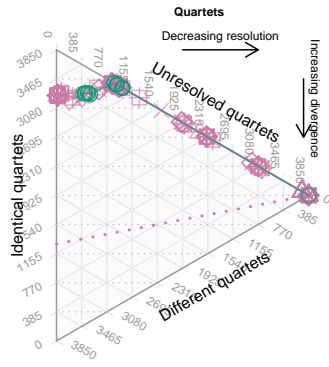


Dataset 92: CI=0.25. Equal weights

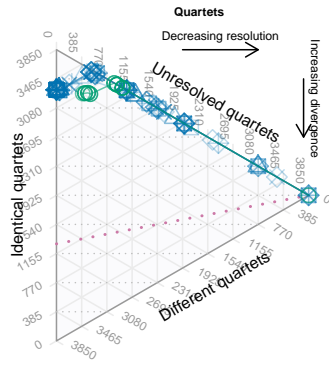
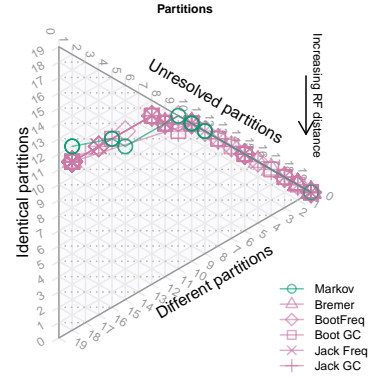


Implied weights (k = 3)

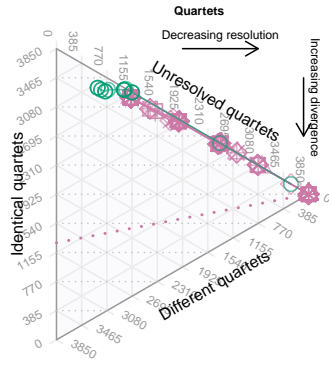
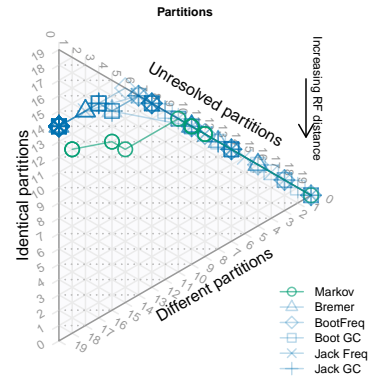




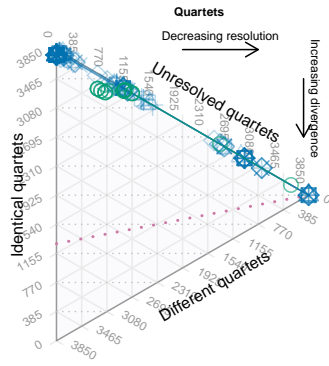
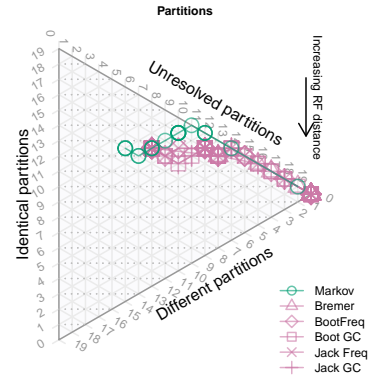
Dataset 93: CI=0.28. Equal weights



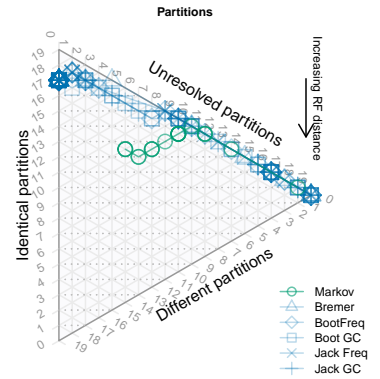
Implied weights (k = 3)

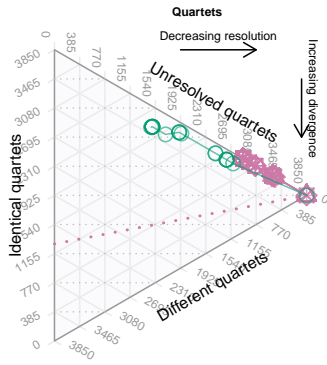


Dataset 94: CI=0.24. Equal weights

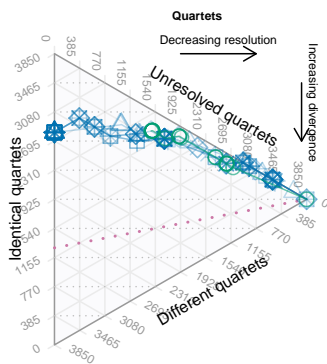
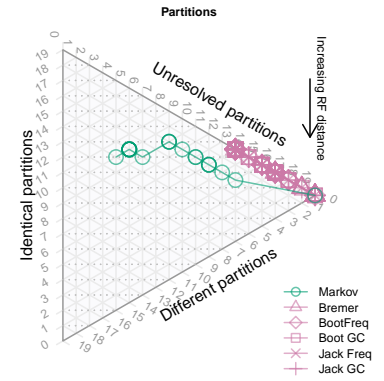


Implied weights (k = 3)

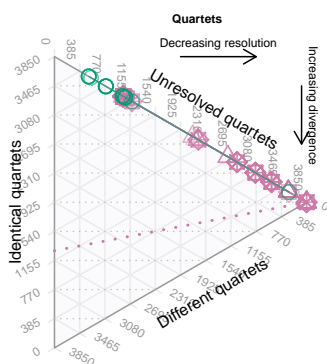
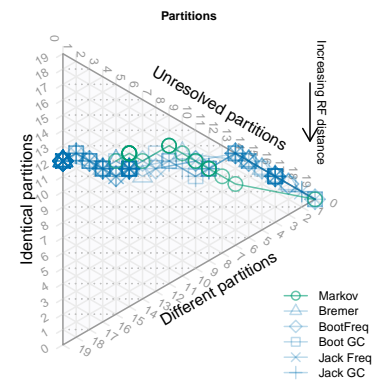




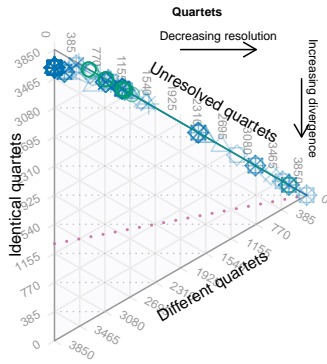
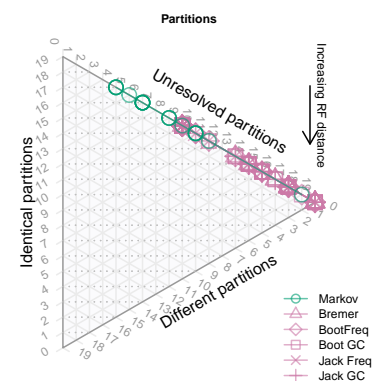
Dataset 97: CI=0.27. Equal weights



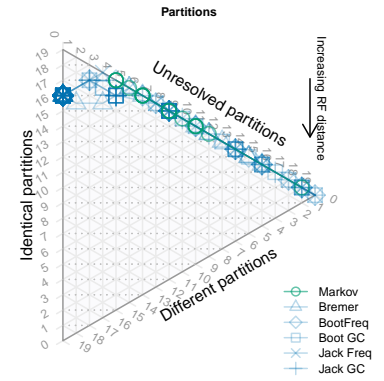
Implied weights (k = 3)

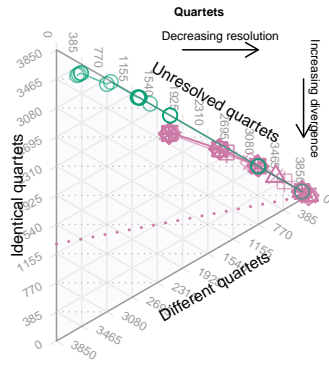


Dataset 98: CI=0.26. Equal weights

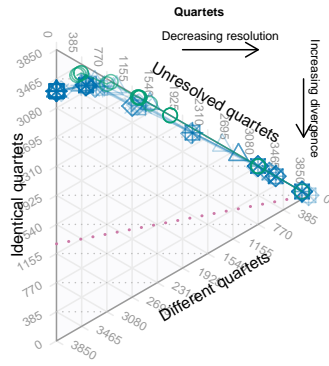
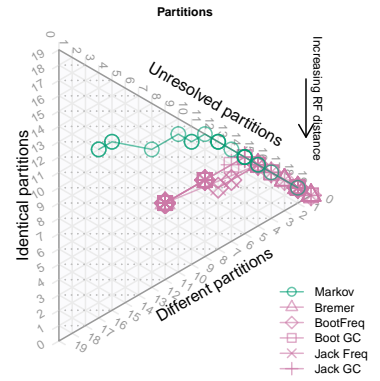
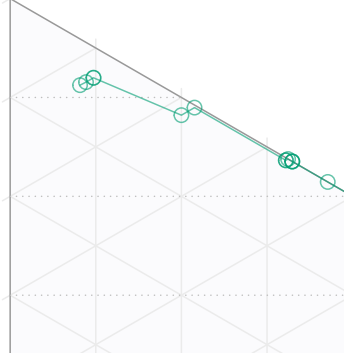


Implied weights (k = 3)

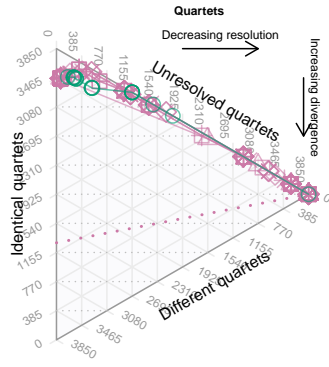
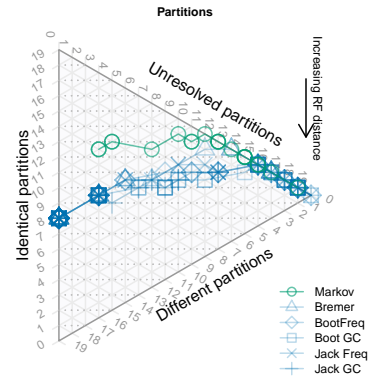
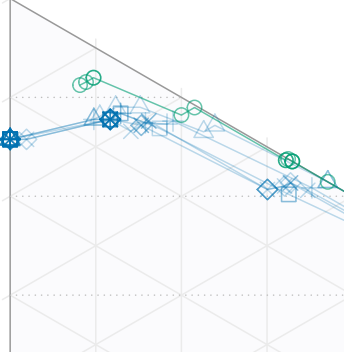




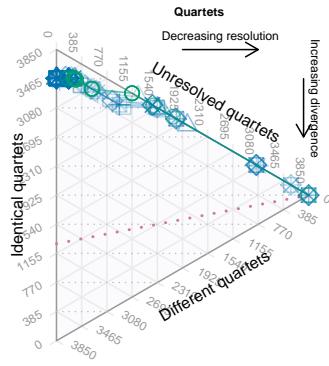
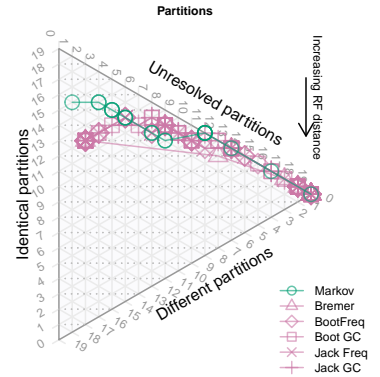
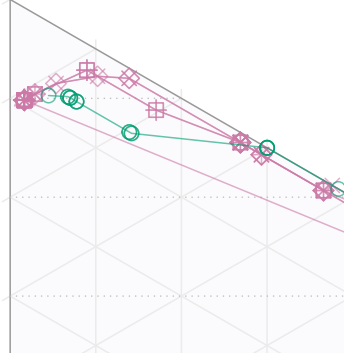
Dataset 99: CI=0.24. Equal weights



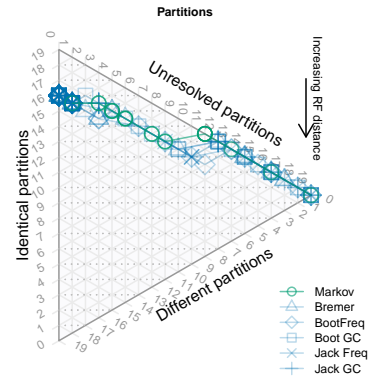
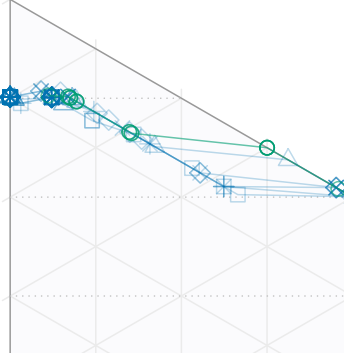
Implied weights (k = 3)



Dataset 100: CI=0.27. Equal weights



Implied weights (k = 3)



References

1. Congreve CR, Lamsdell JC. 2016 Implied weighting and its utility in palaeontological datasets: a study using modelled phylogenetic matrices. *Palaeontology* **59**, 447–465. (doi:10.1111/pala.12236)
2. Smith MR. In press. Bayesian and parsimony approaches reconstruct informative trees from simulated morphological datasets. *Biology Letters; preprint at BioRxiv* (doi:10.1101/227942)