

Resolution and accuracy in Congreve & Lamsdell matrices

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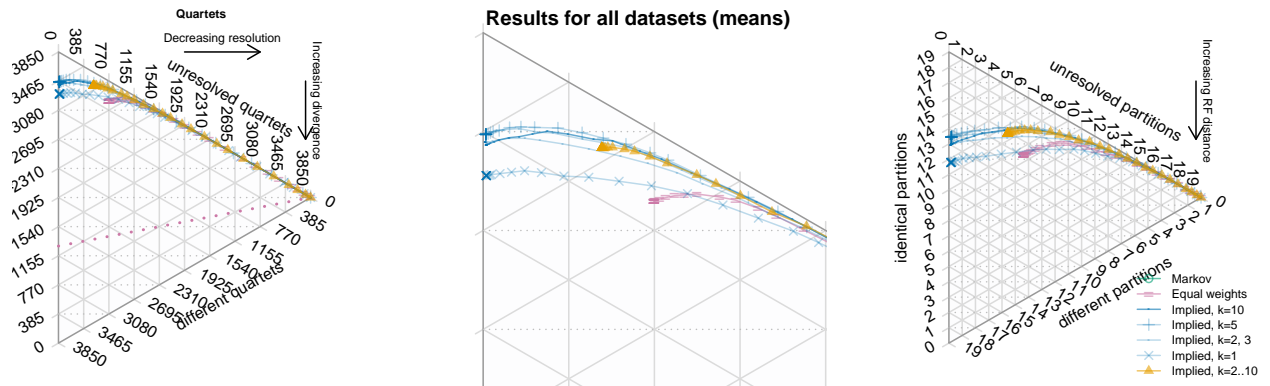
2019-12-19

Contents

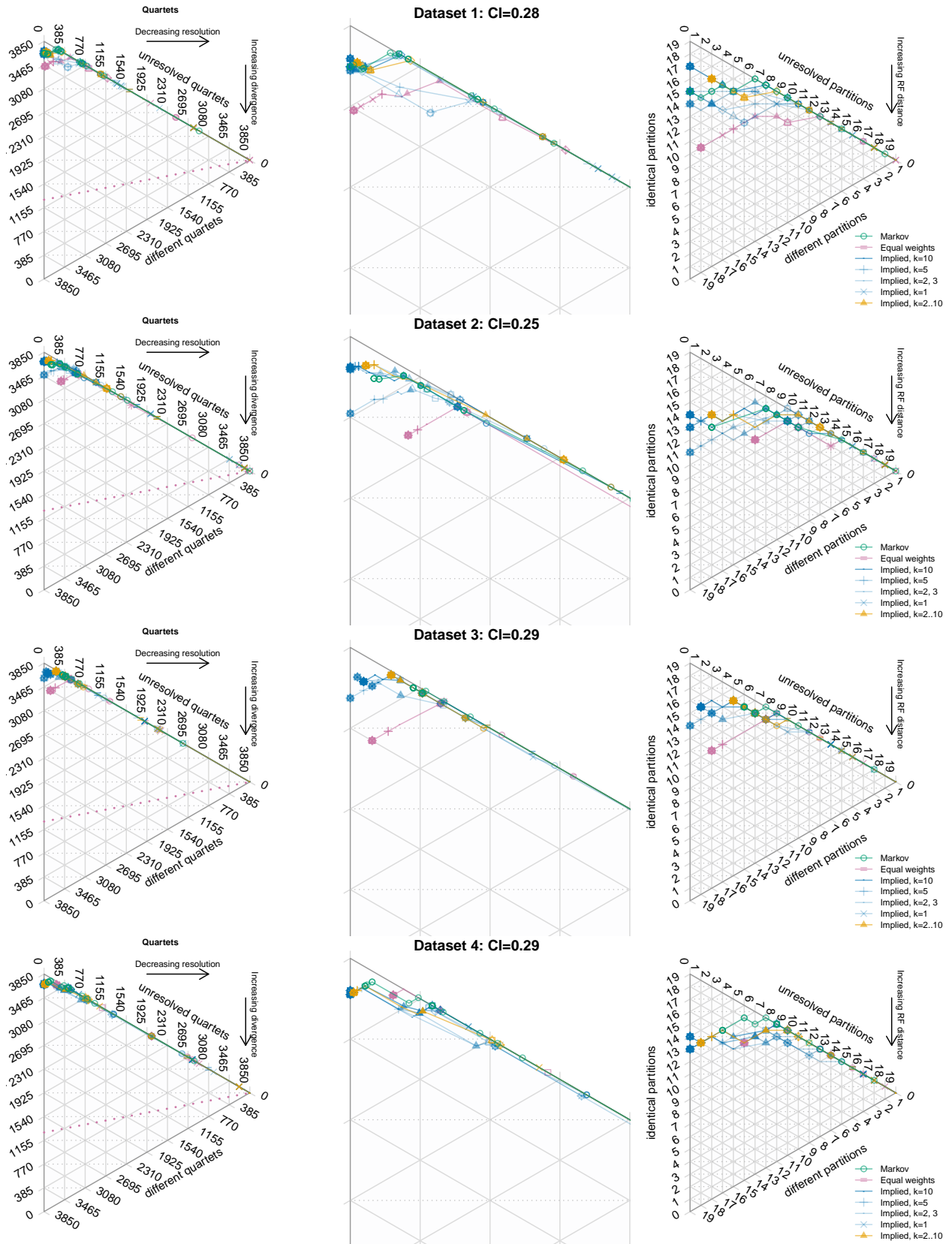
| | | |
|------|------------------------|----|
| 0.1 | Summary | 1 |
| 0.2 | Trees 1–10 | 2 |
| 0.3 | Trees 11–20 | 5 |
| 0.4 | Trees 21–30 | 8 |
| 0.5 | Trees 31–40 | 11 |
| 0.6 | Trees 41–50 | 14 |
| 0.7 | Trees 51–60 | 17 |
| 0.8 | Trees 61–70 | 20 |
| 0.9 | Trees 71–80 | 23 |
| 0.10 | Trees 81–90 | 26 |
| 0.11 | Trees 91–100 | 29 |
| | References | 31 |

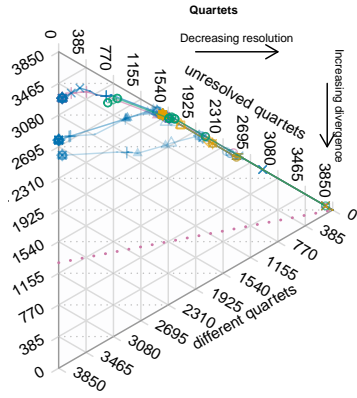
This page depicts the analytical results of all 100 matrices generated by Congreve & Lamsdell [1] using a ternary plotting approach [2], with quartets and partitions used as distance metrics.

0.1 Summary

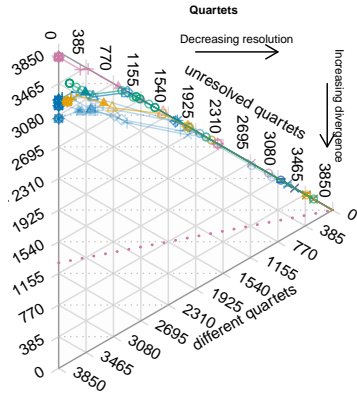
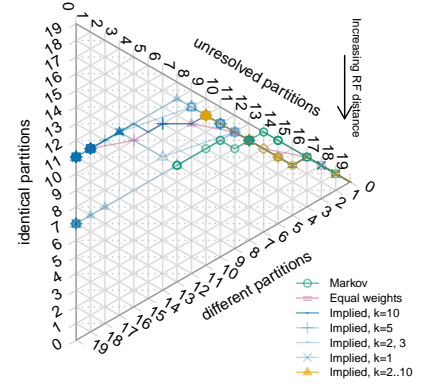
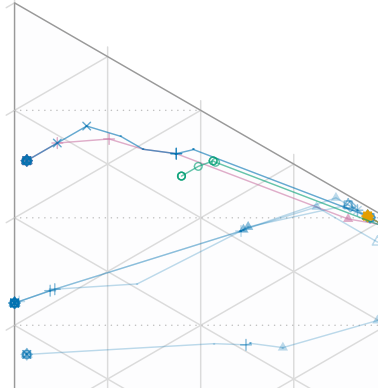


0.2 Trees 1–10

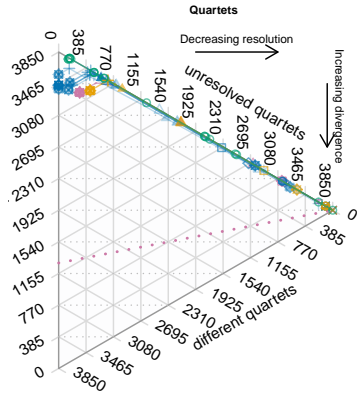
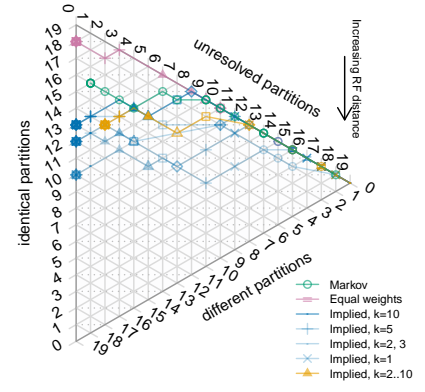
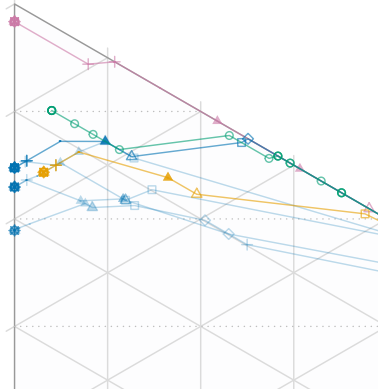




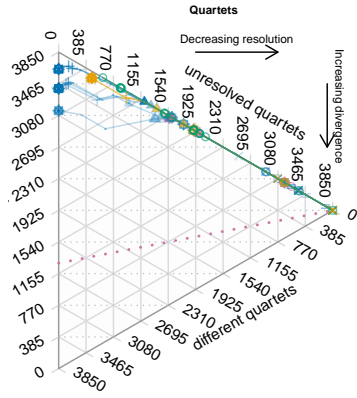
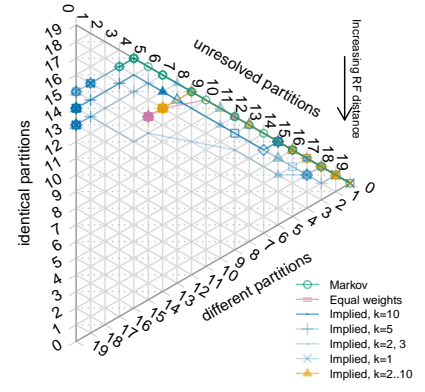
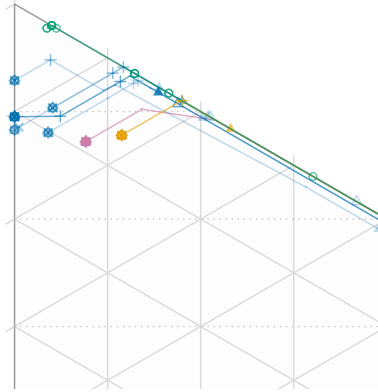
Dataset 5: CI=0.26



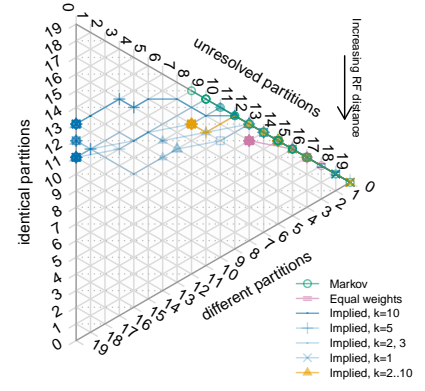
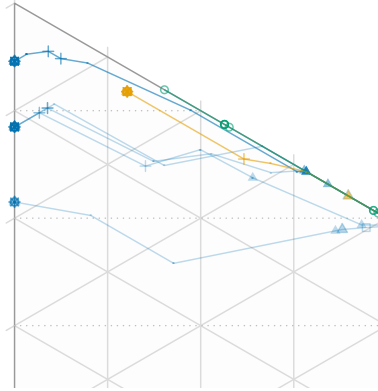
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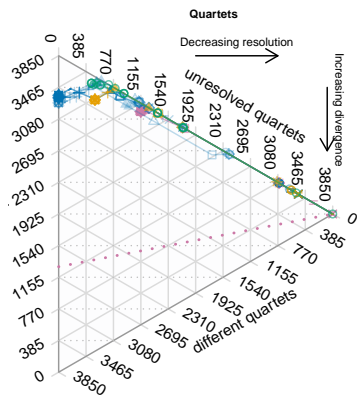


Dataset 7: CI=0.27

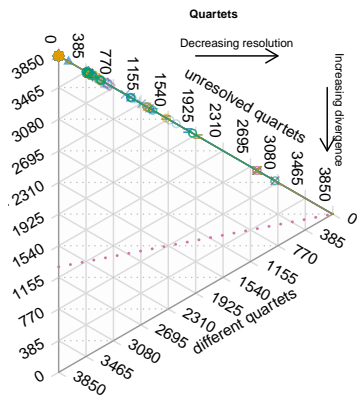
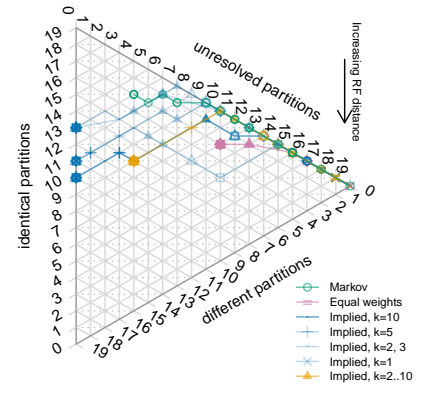
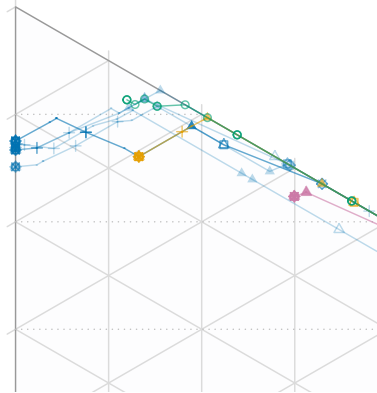


Dataset 8: CI=0.25

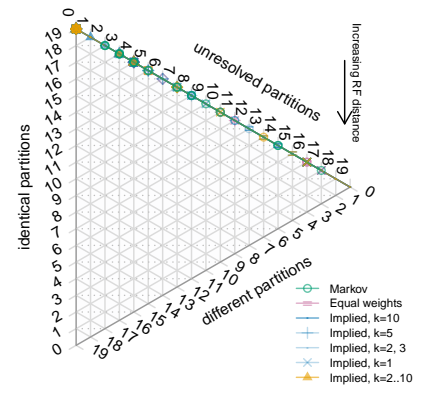
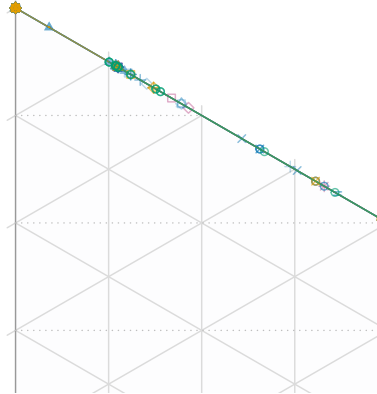




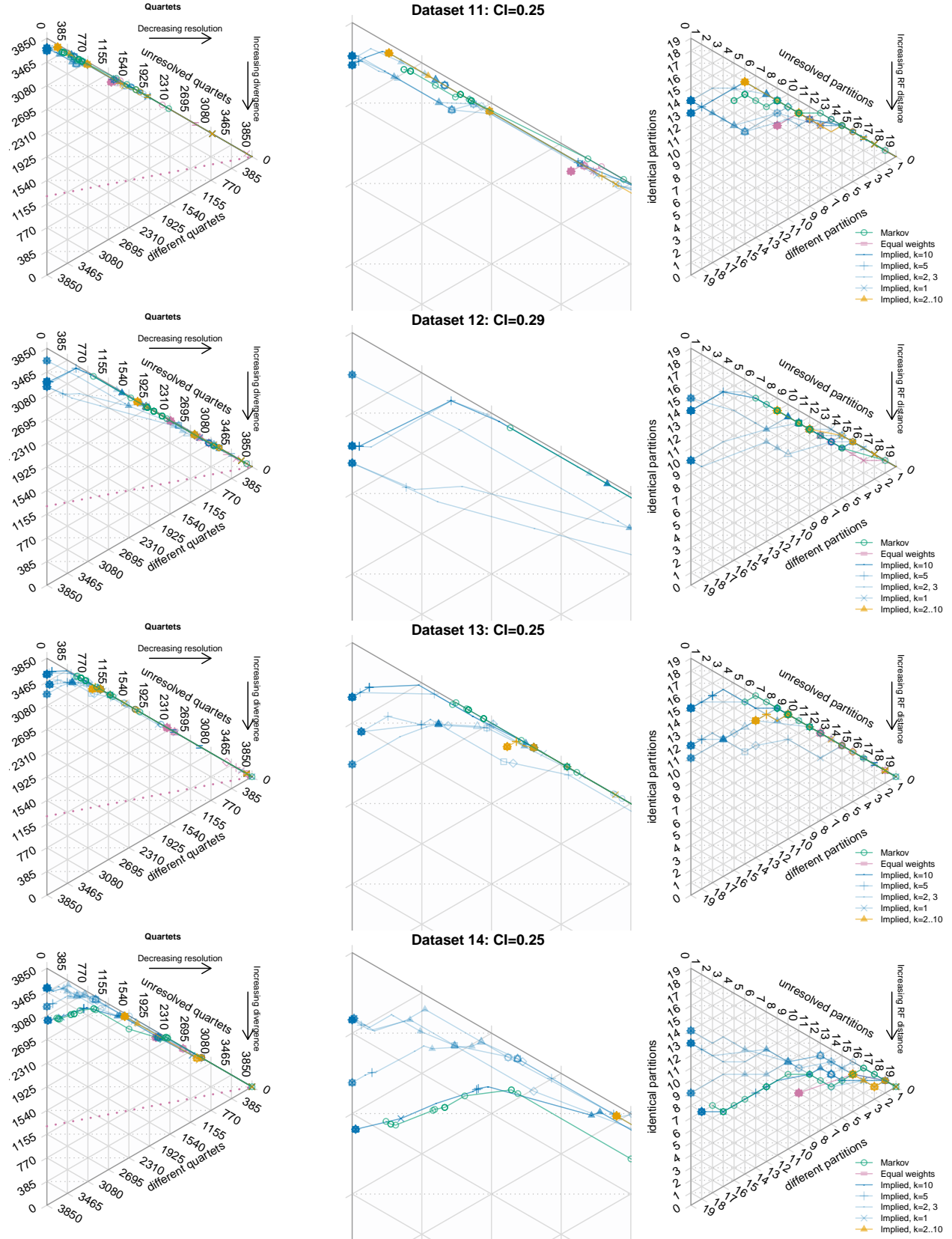
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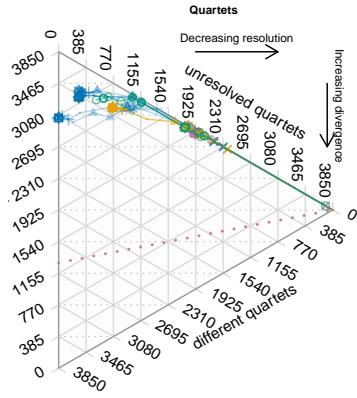


Dataset 10: CI=0.29

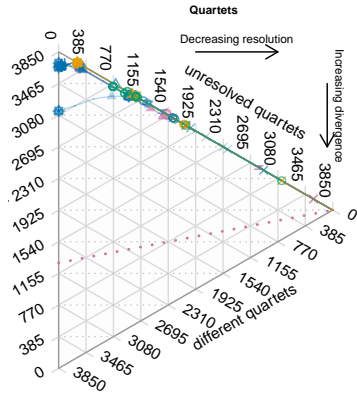
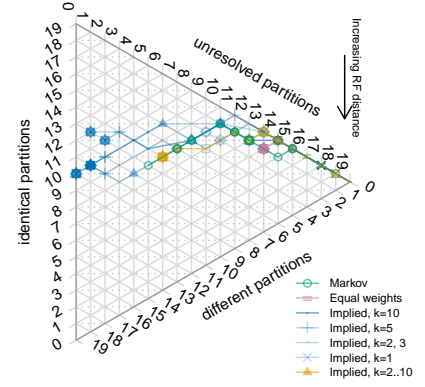


0.3 Trees 11–20

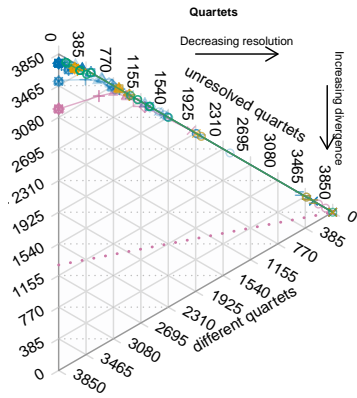
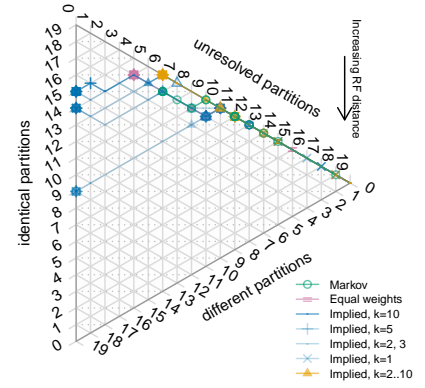




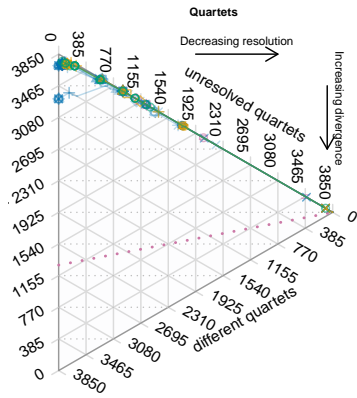
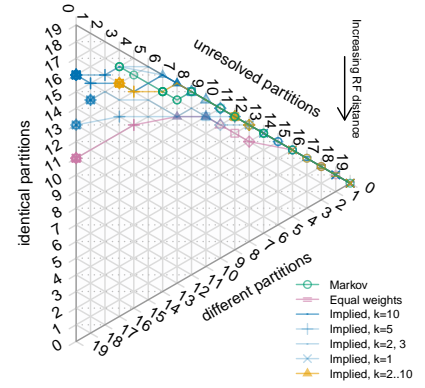
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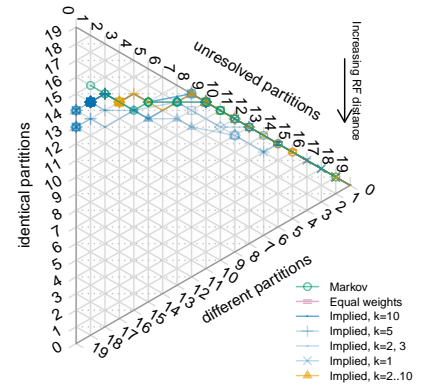
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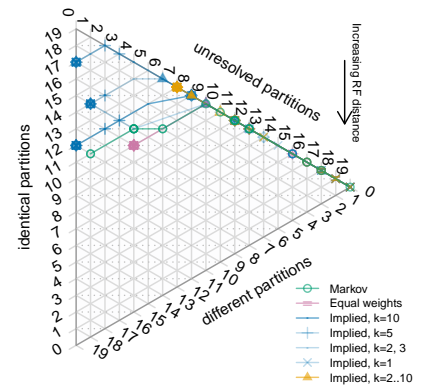
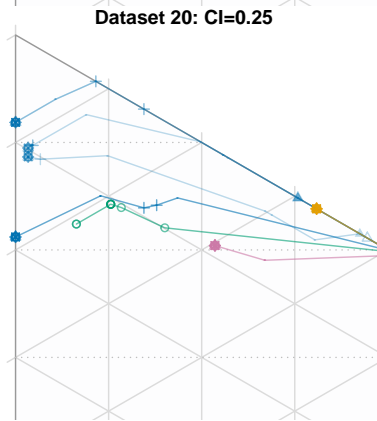
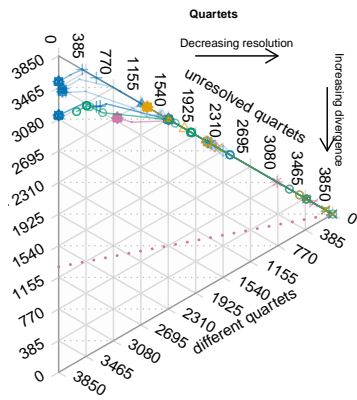
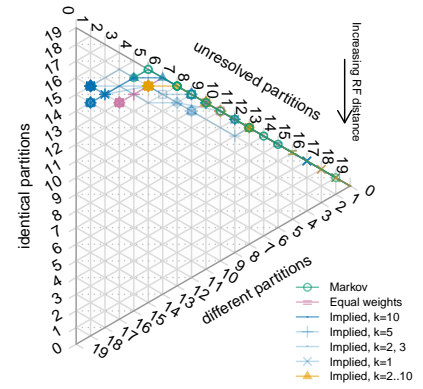
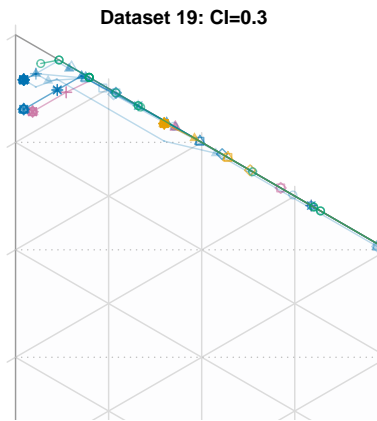
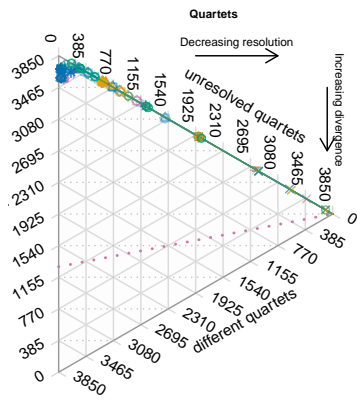


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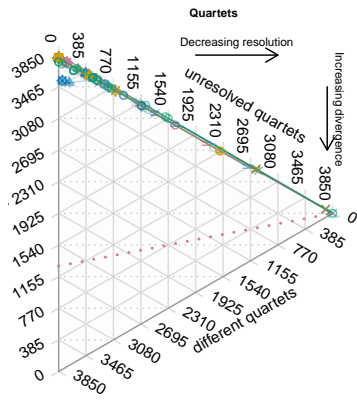


Dataset 18: CI=0.28

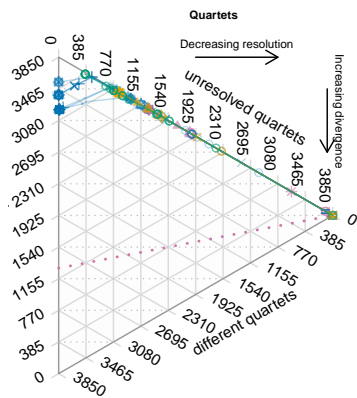
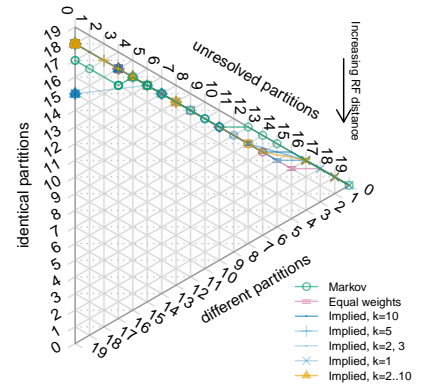




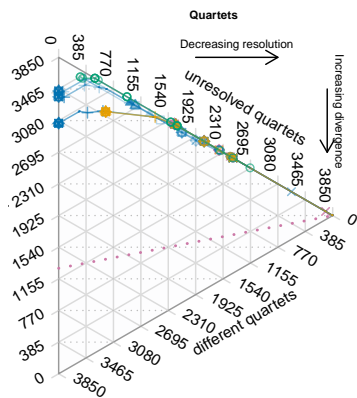
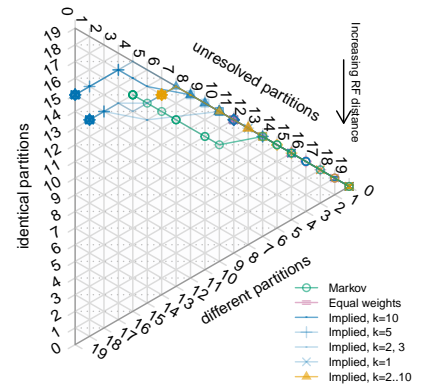
0.4 Trees 21–30



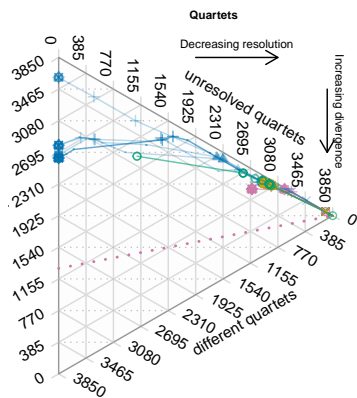
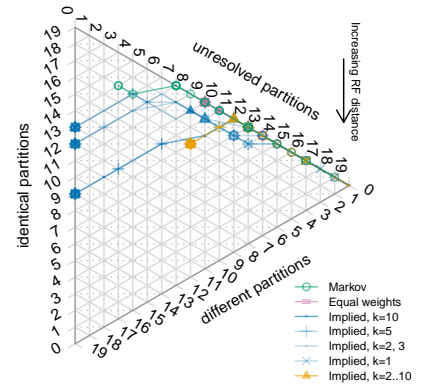
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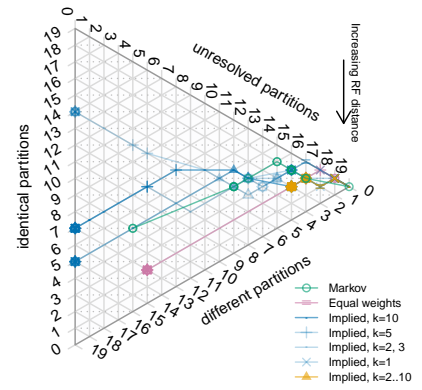
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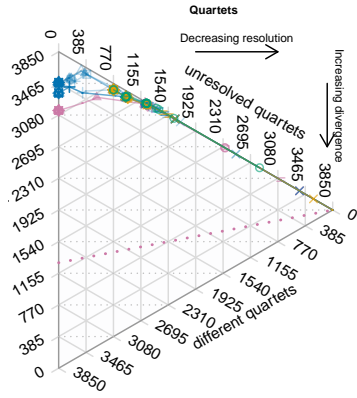


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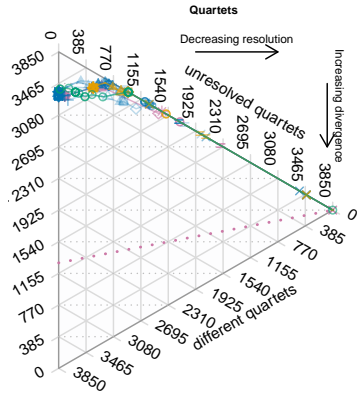
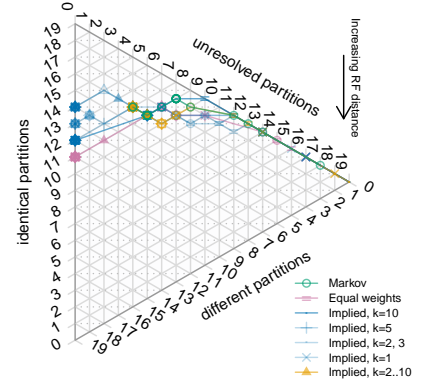


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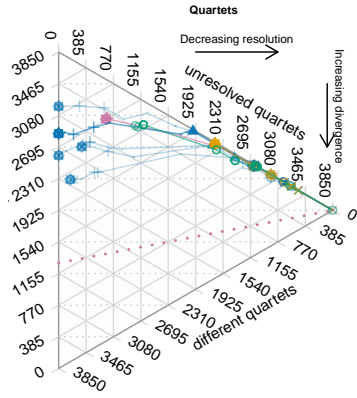
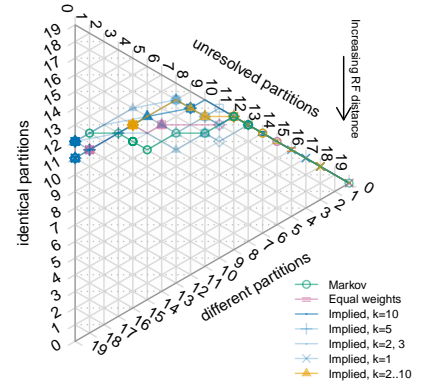




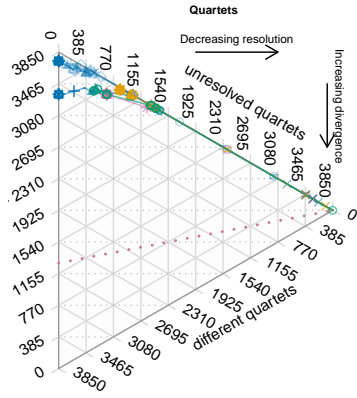
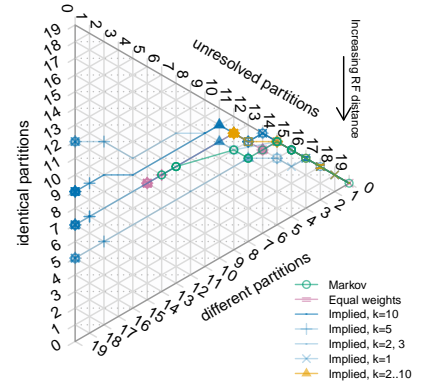
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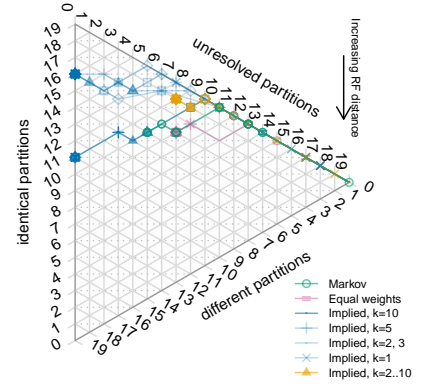
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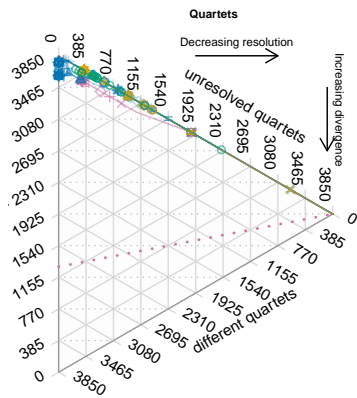


Dataset 27: CI=0.26

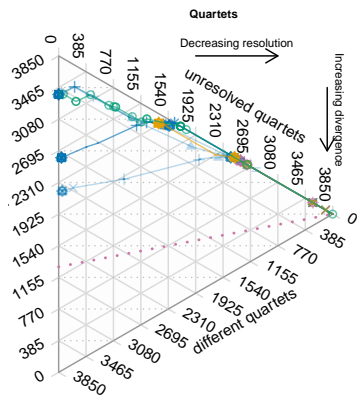
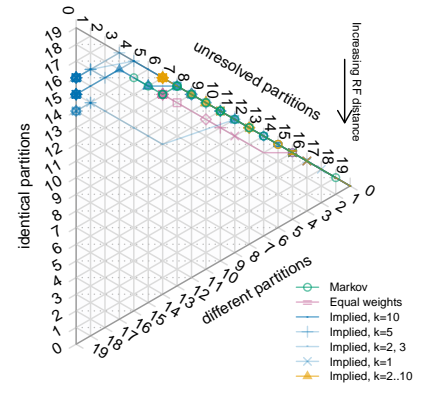
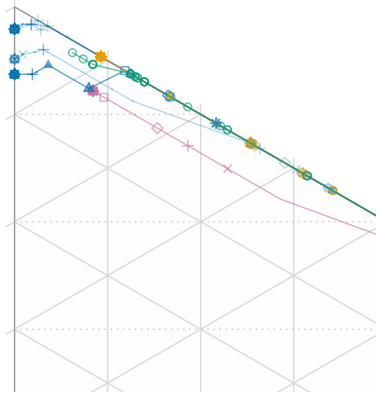


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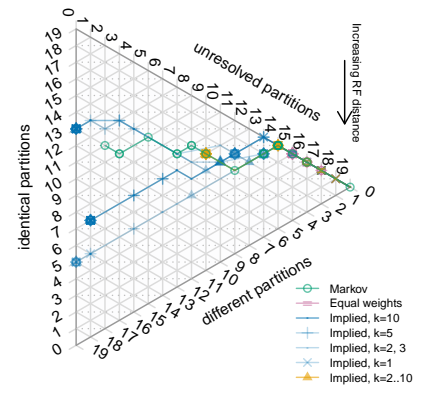
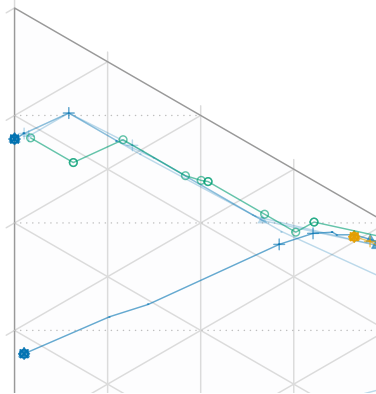




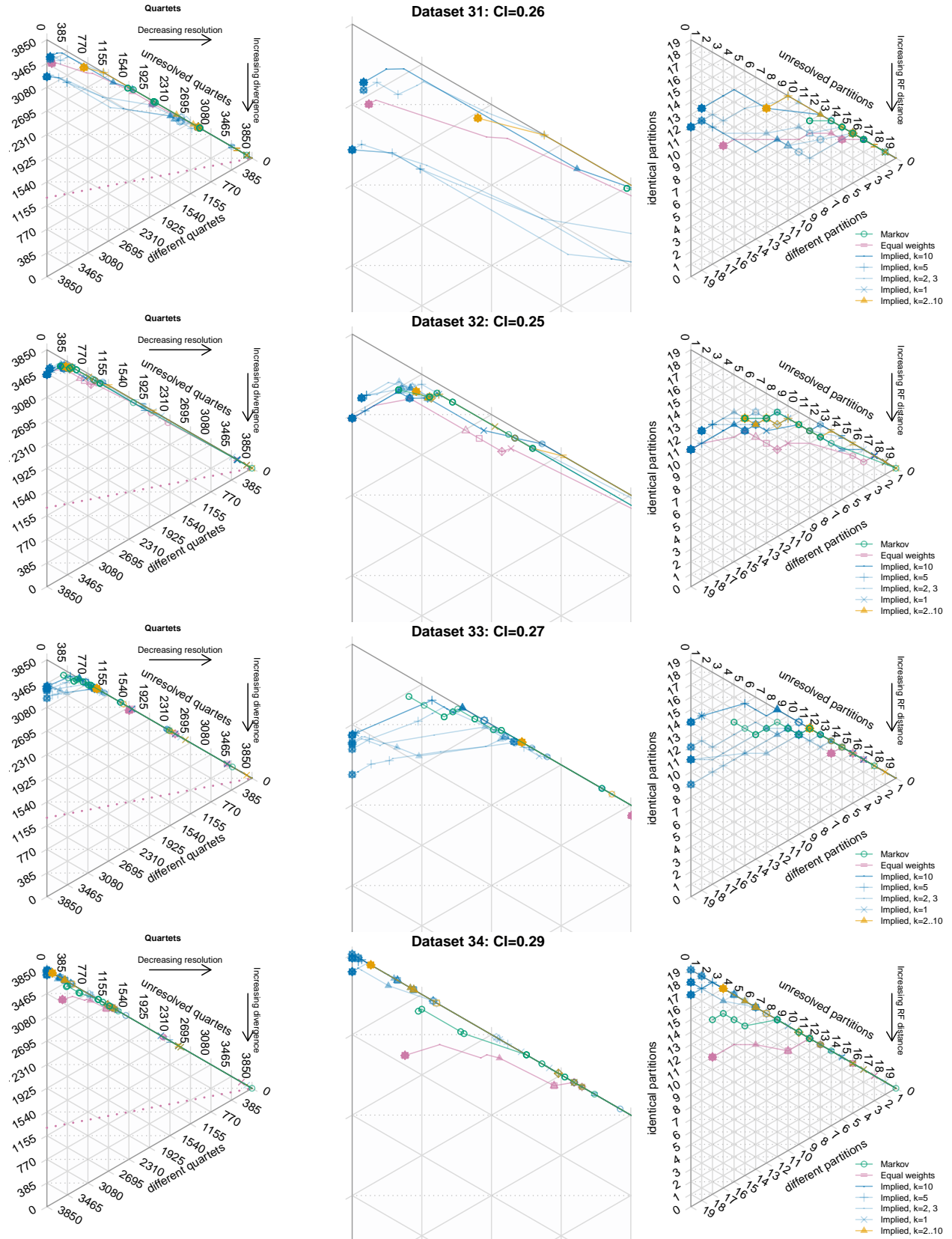
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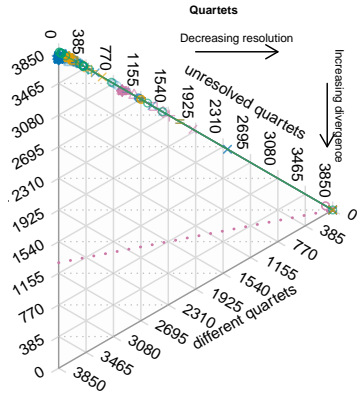


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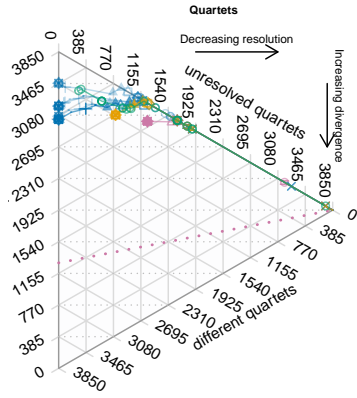
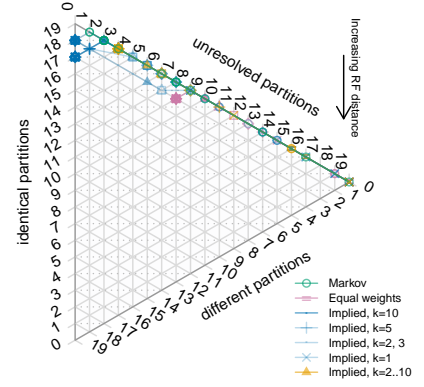


0.5 Trees 31–40

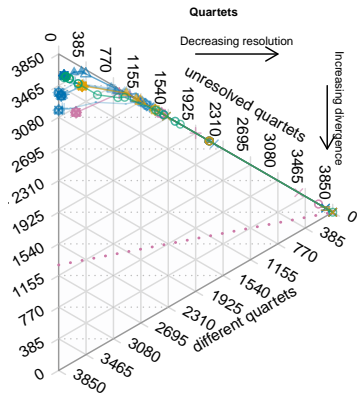
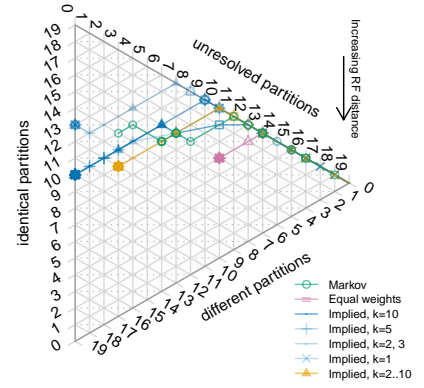




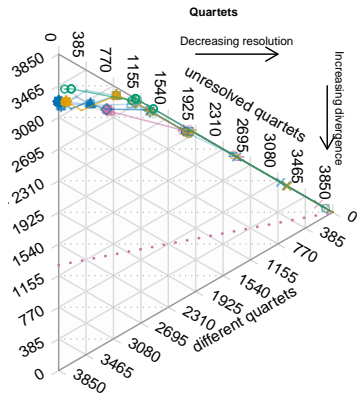
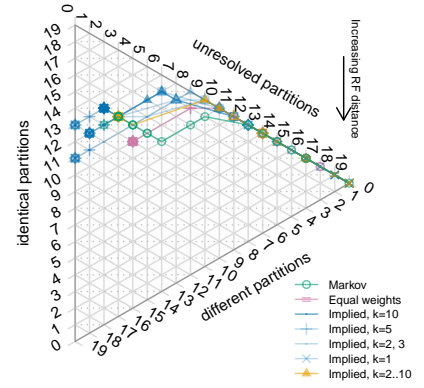
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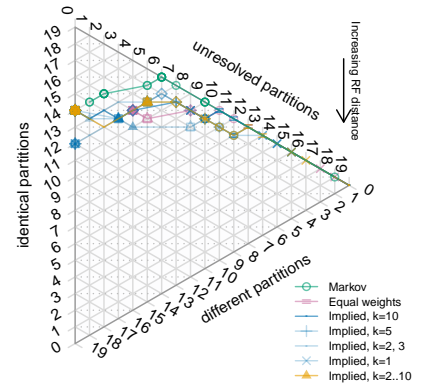
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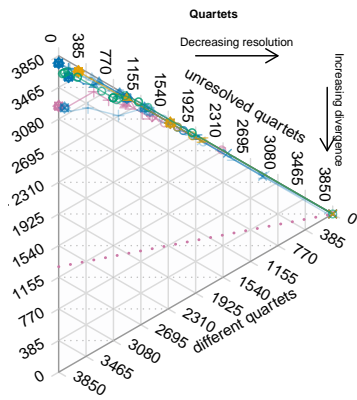


Dataset 37: CI=0.26

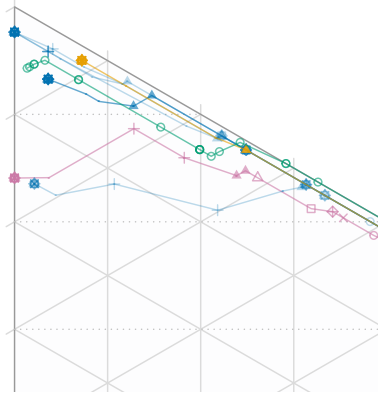


Dataset 38: CI=0.29

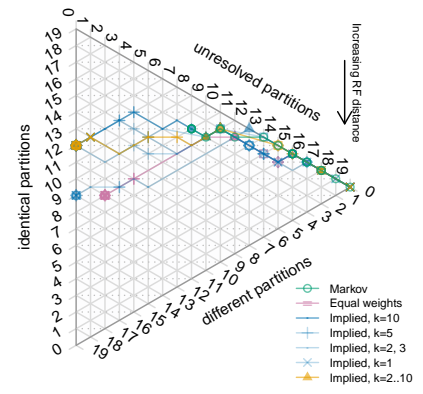
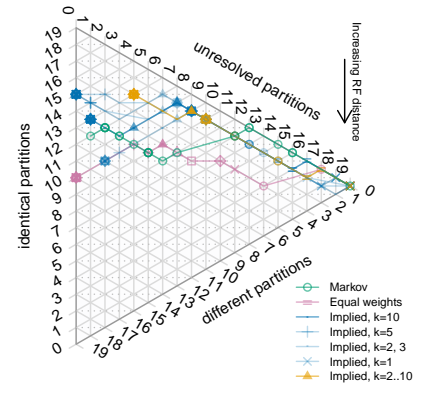
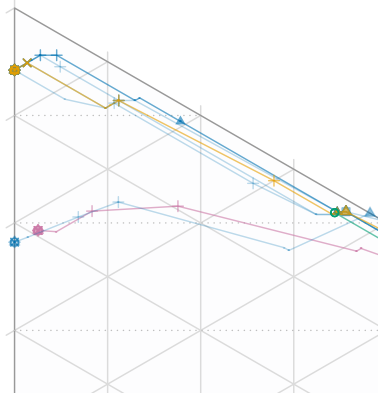




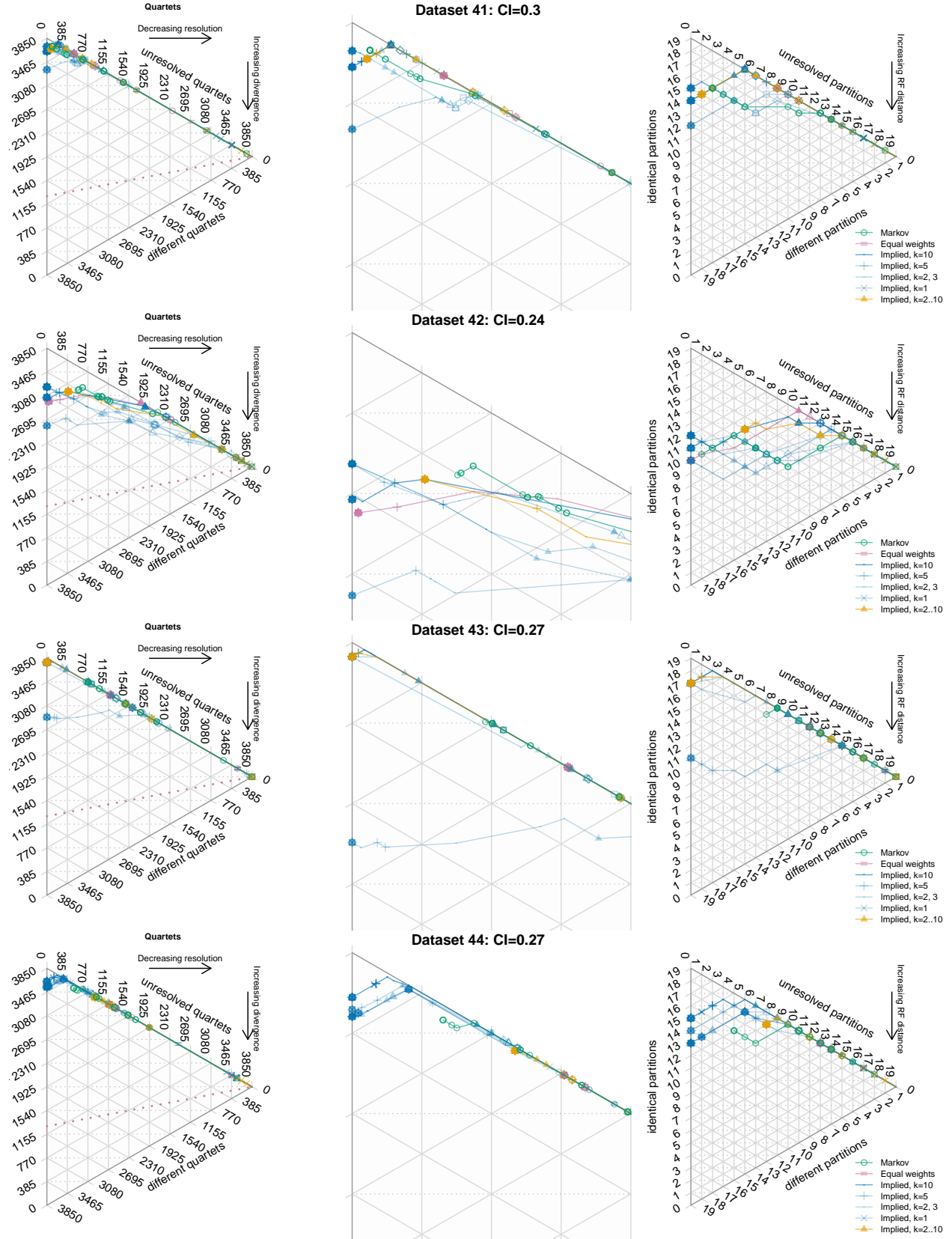
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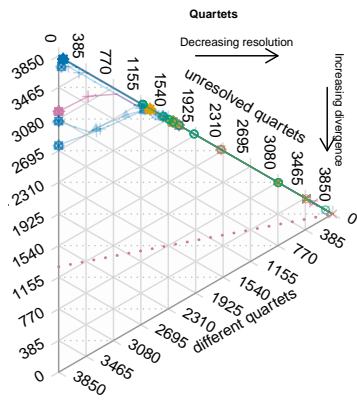


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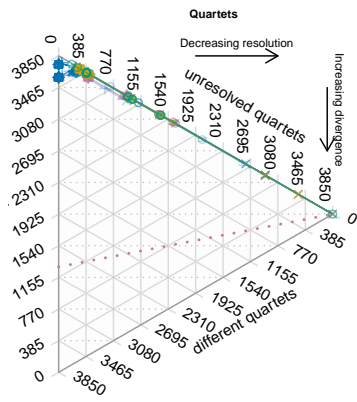
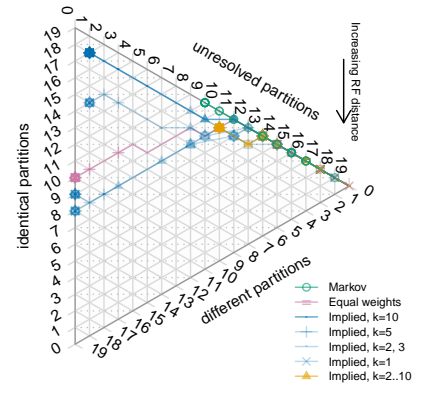
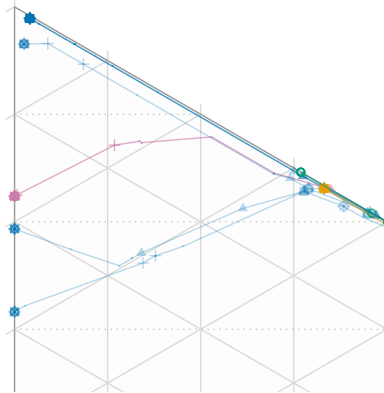


0.6 Trees 41–50

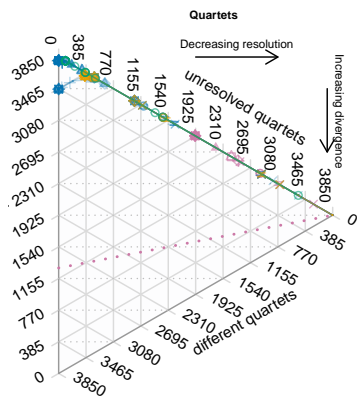
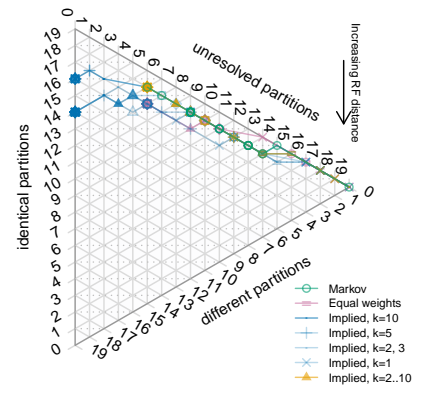
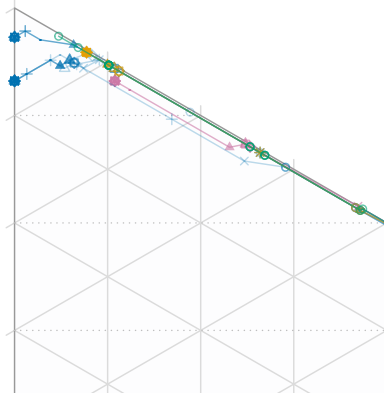




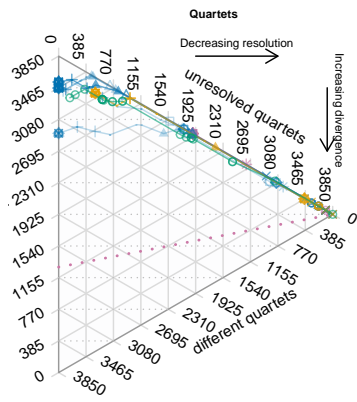
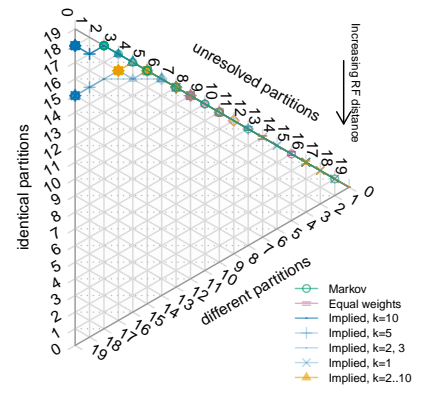
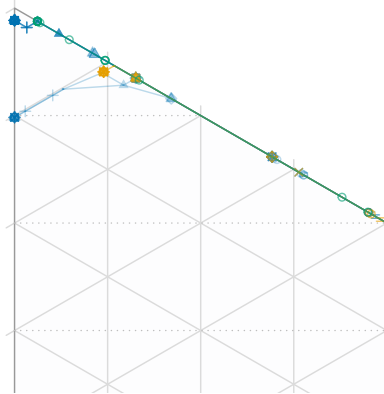
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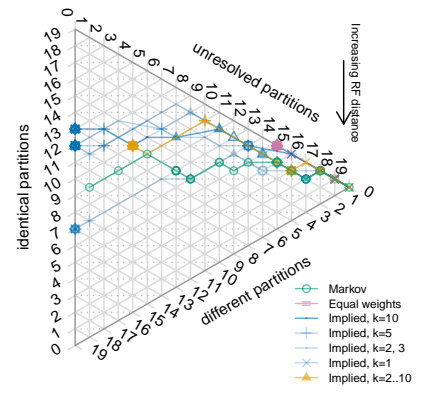
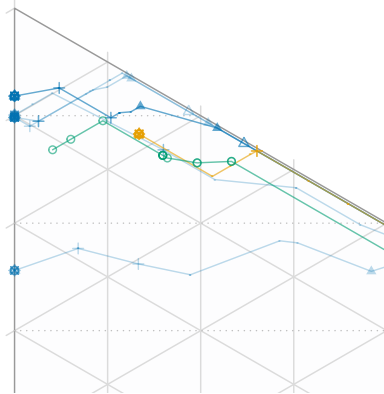
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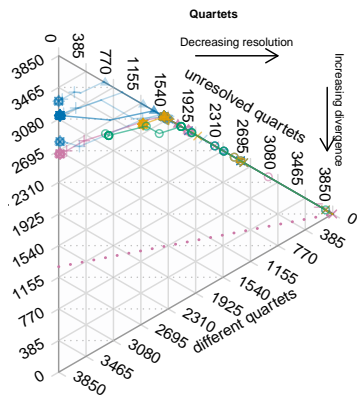


Dataset 47: CI=0.29

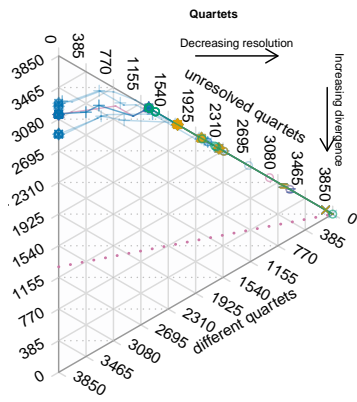
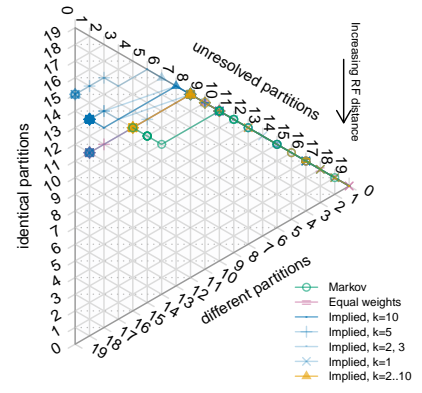
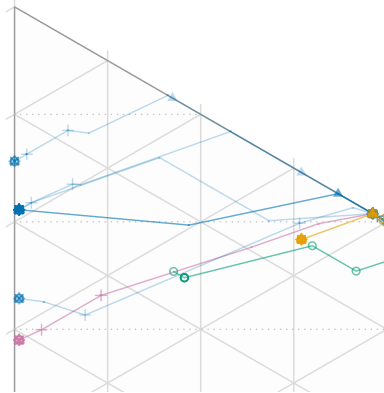


Dataset 48: CI=0.27

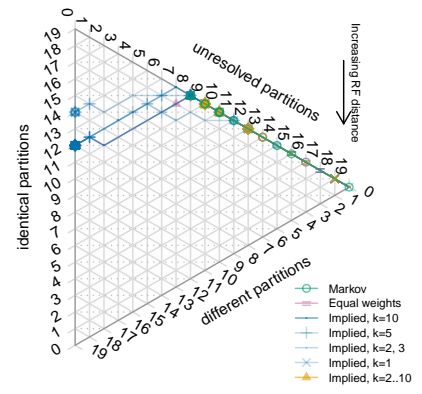
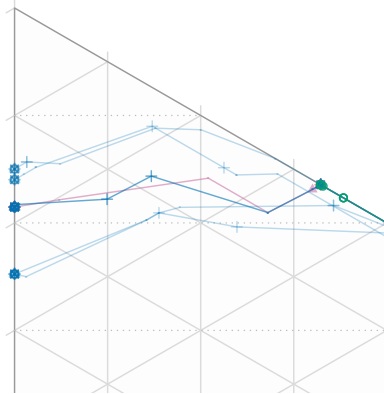




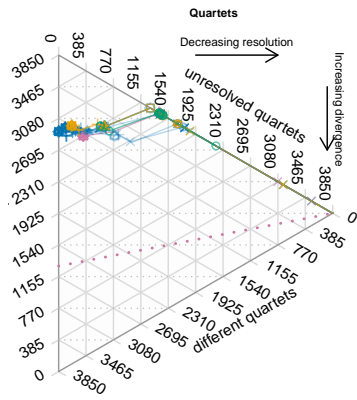
Dataset 49: CI=0.28



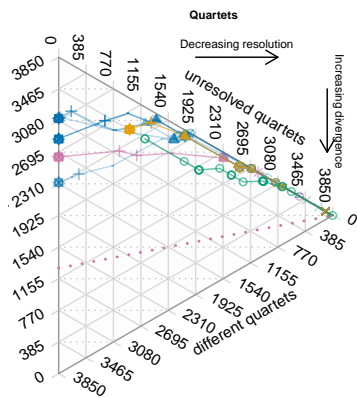
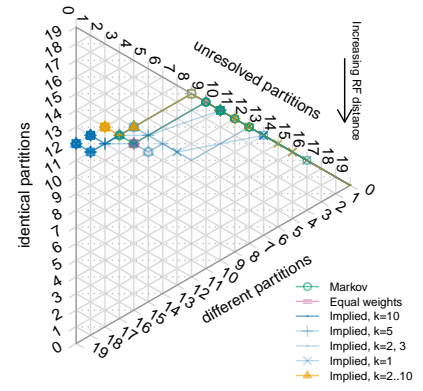
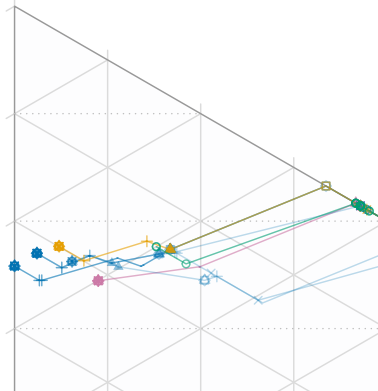
Dataset 50: CI=0.25



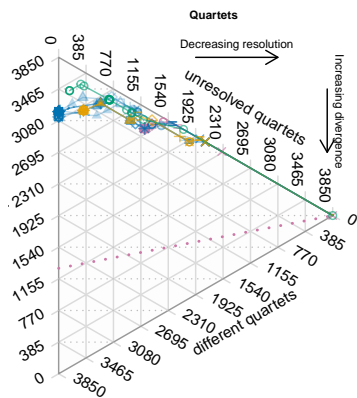
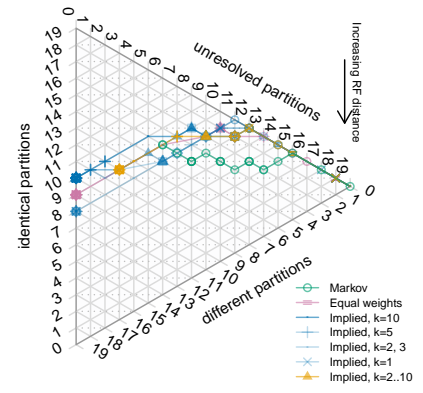
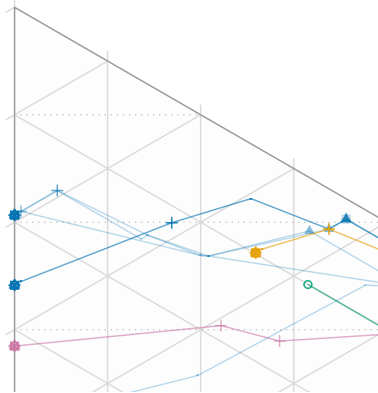
0.7 Trees 51–60



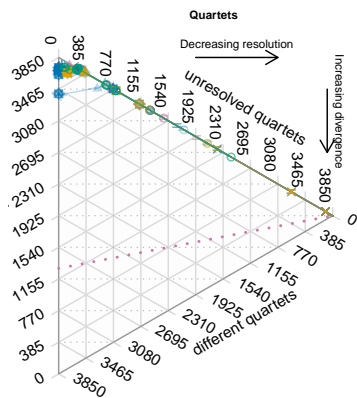
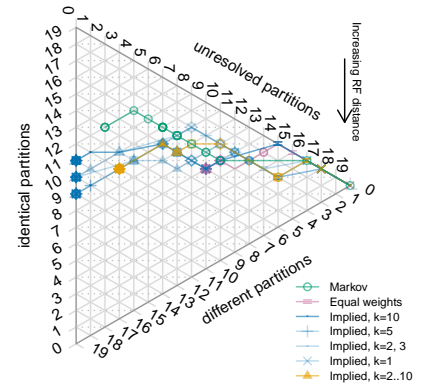
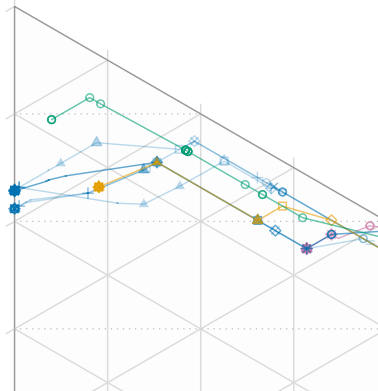
Dataset 51: CI=0.3



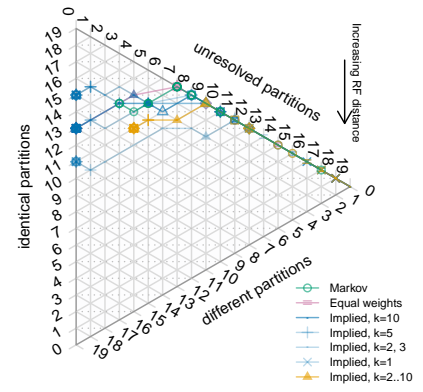
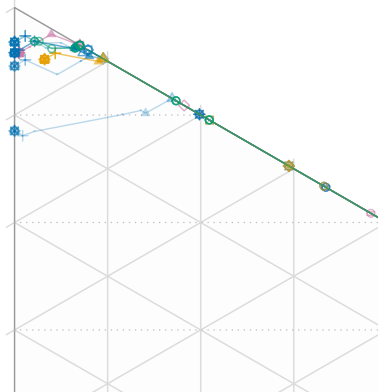
Dataset 52: CI=0.25

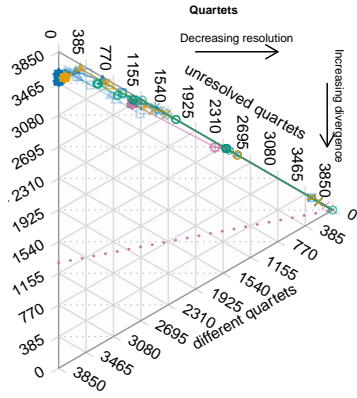


Dataset 53: CI=0.25

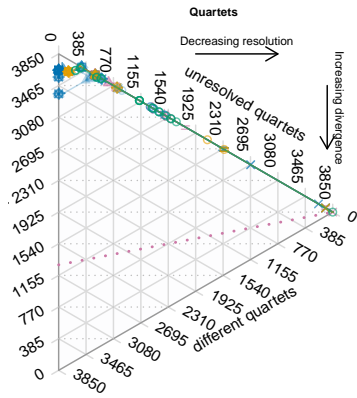
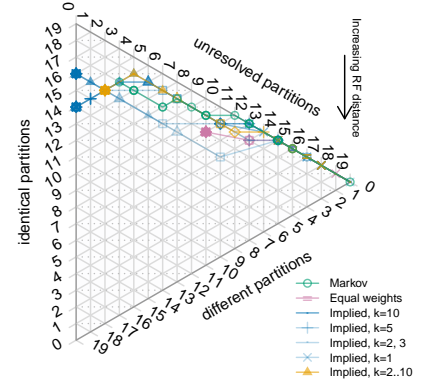


Dataset 54: CI=0.28

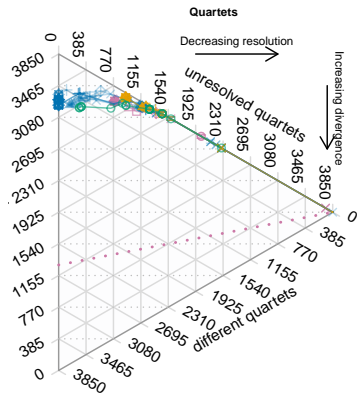
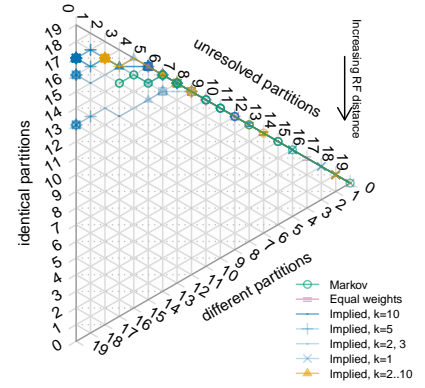




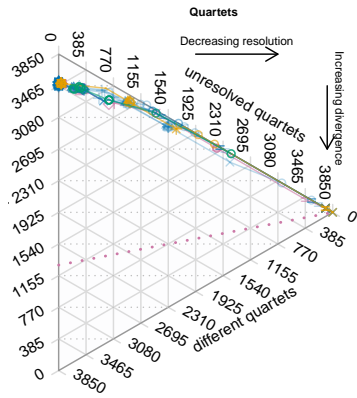
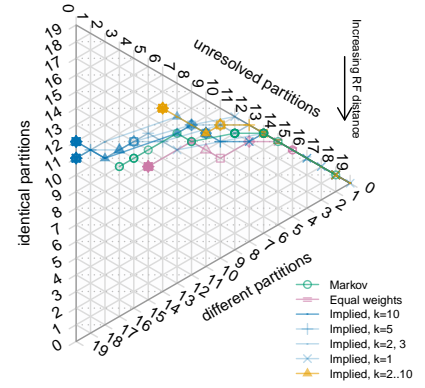
Dataset 55: CI=0.28



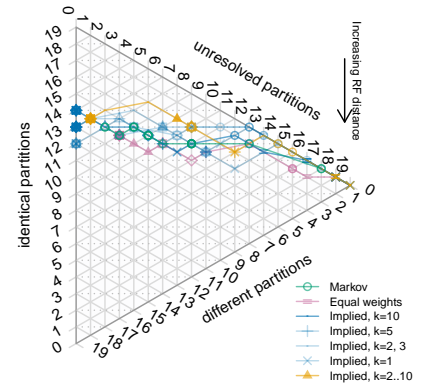
Dataset 56: CI=0.31

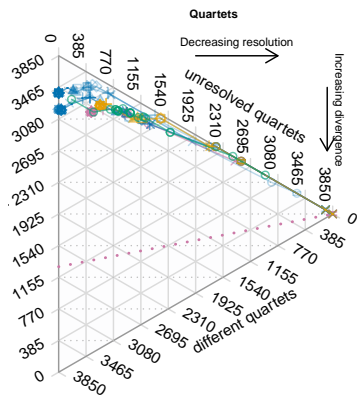


Dataset 57: CI=0.25

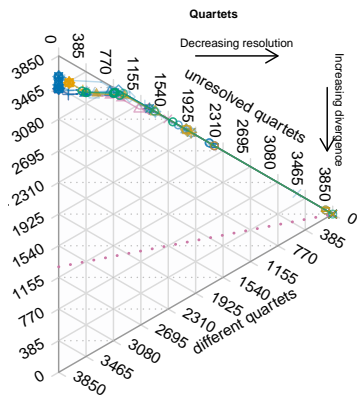
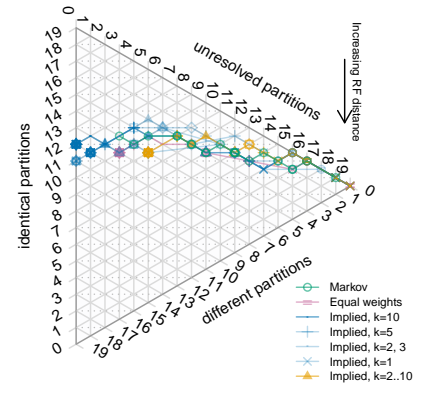
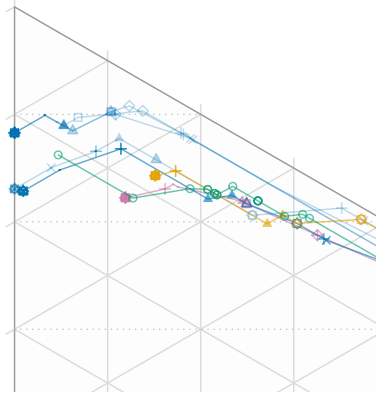


Dataset 58: CI=0.25

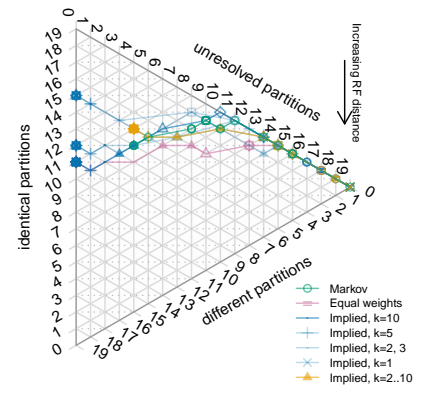
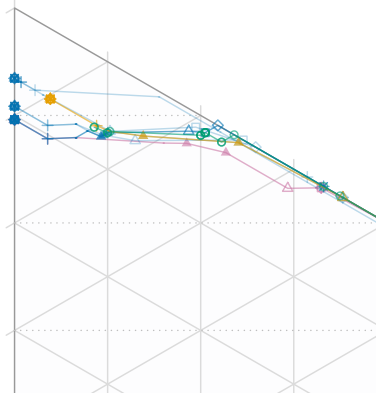




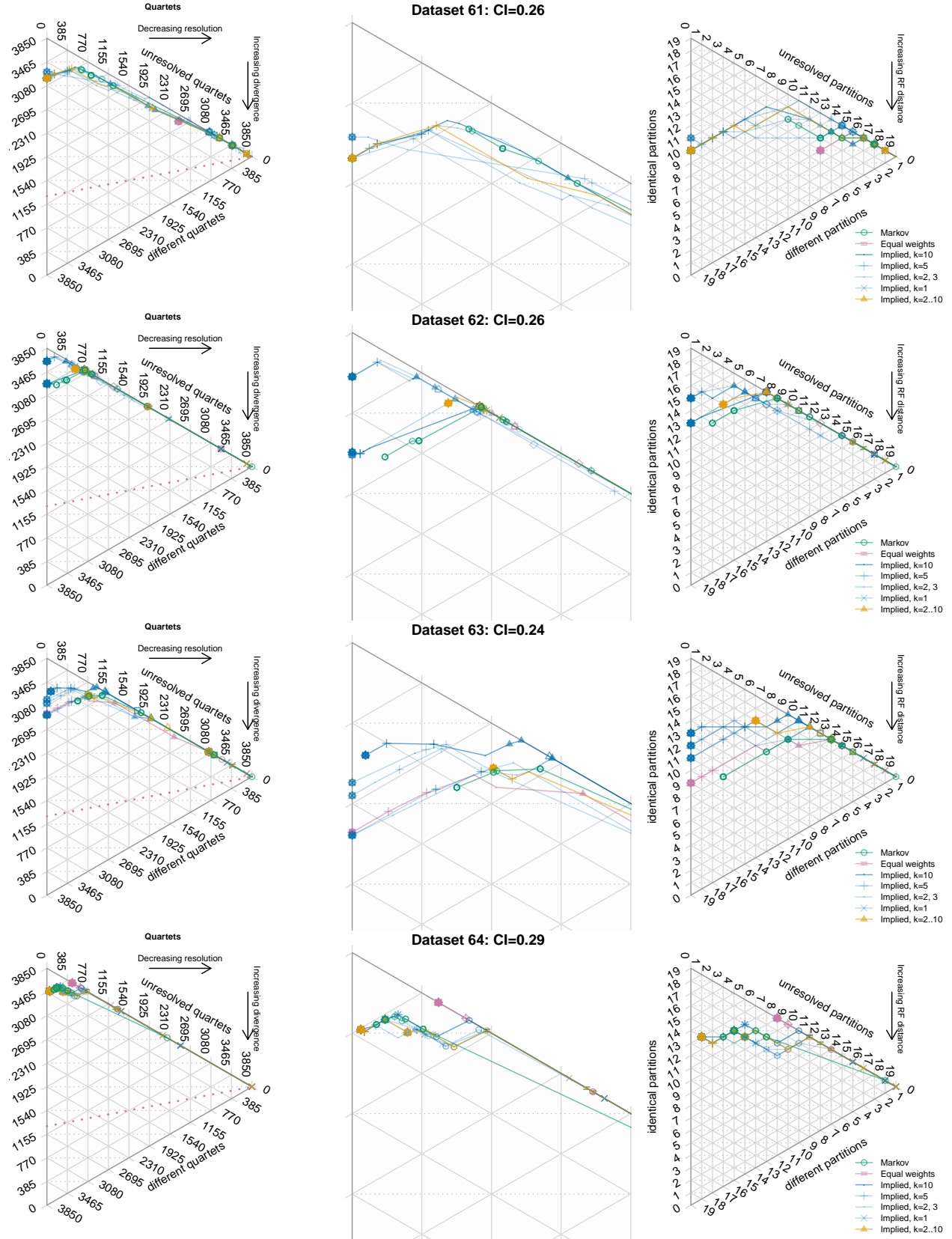
Dataset 59: CI=0.26

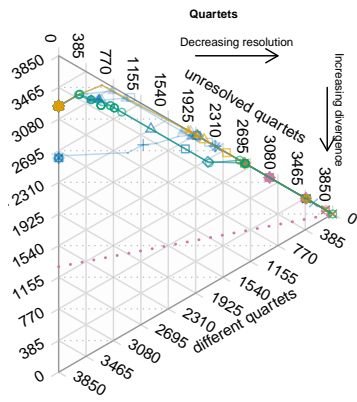


Dataset 60: CI=0.24

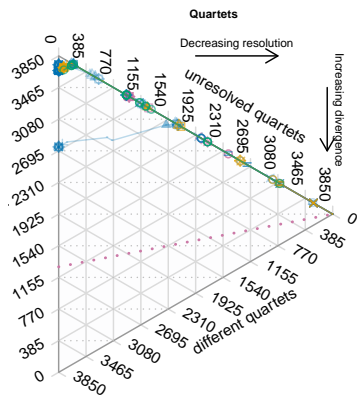
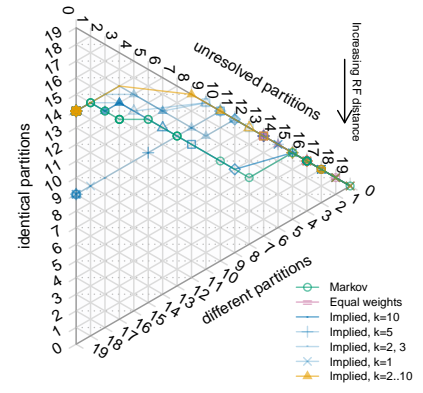
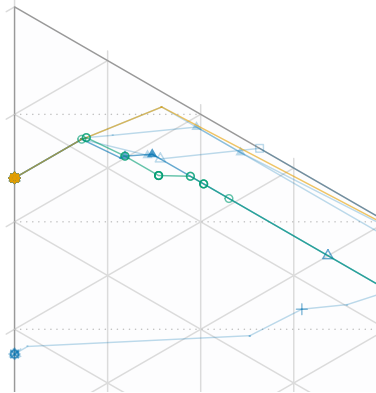


0.8 Trees 61–70

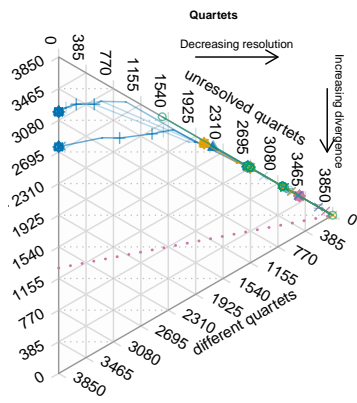
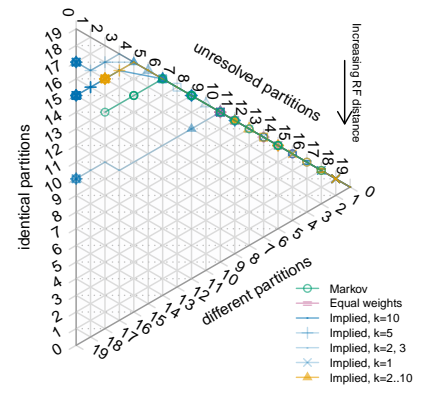
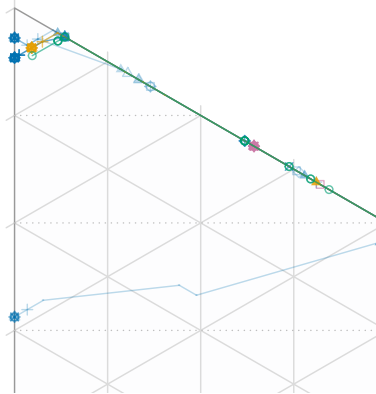




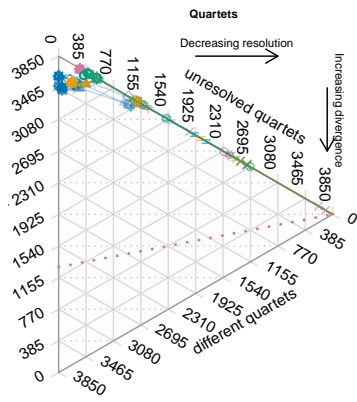
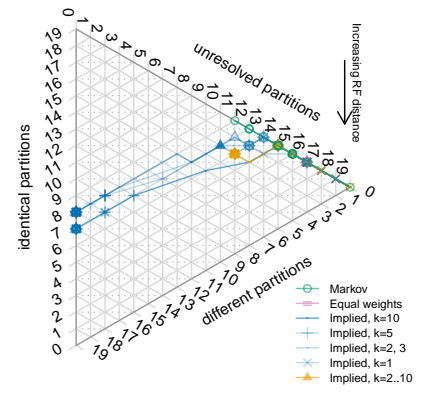
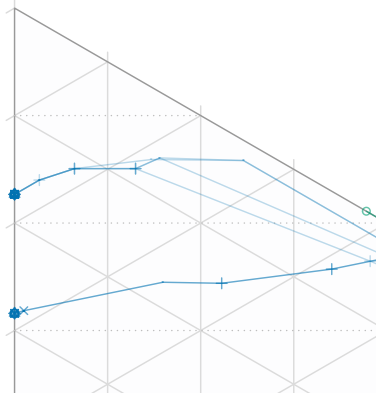
Dataset 65: CI=0.25



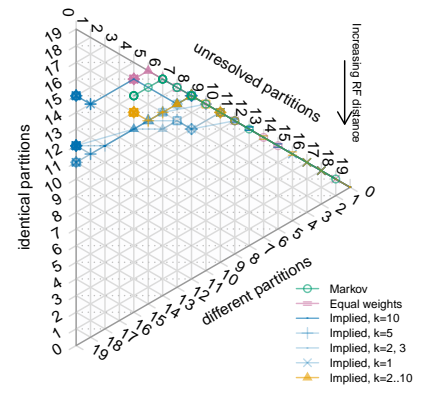
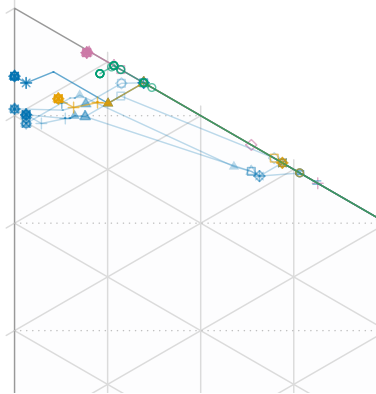
Dataset 66: CI=0.27

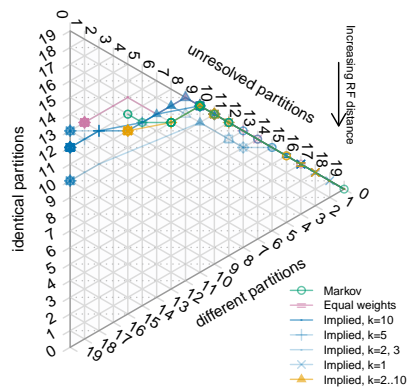
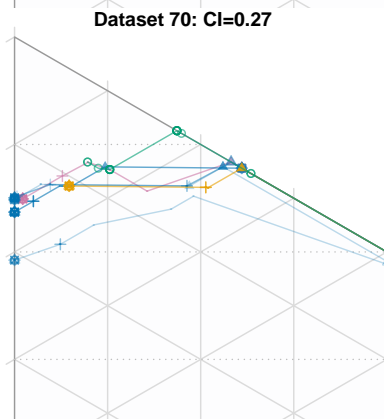
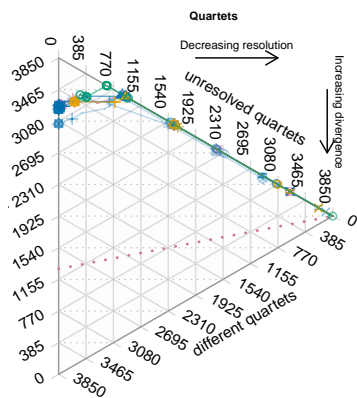
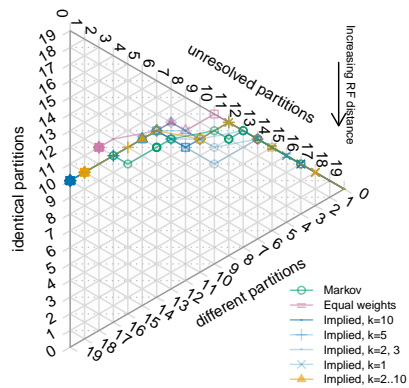
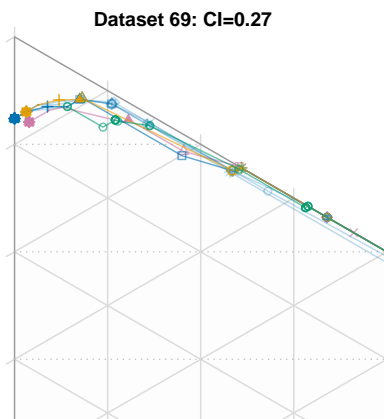
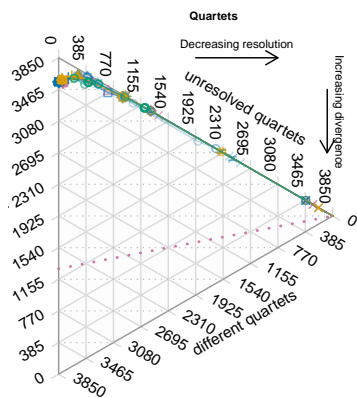


Dataset 67: CI=0.26

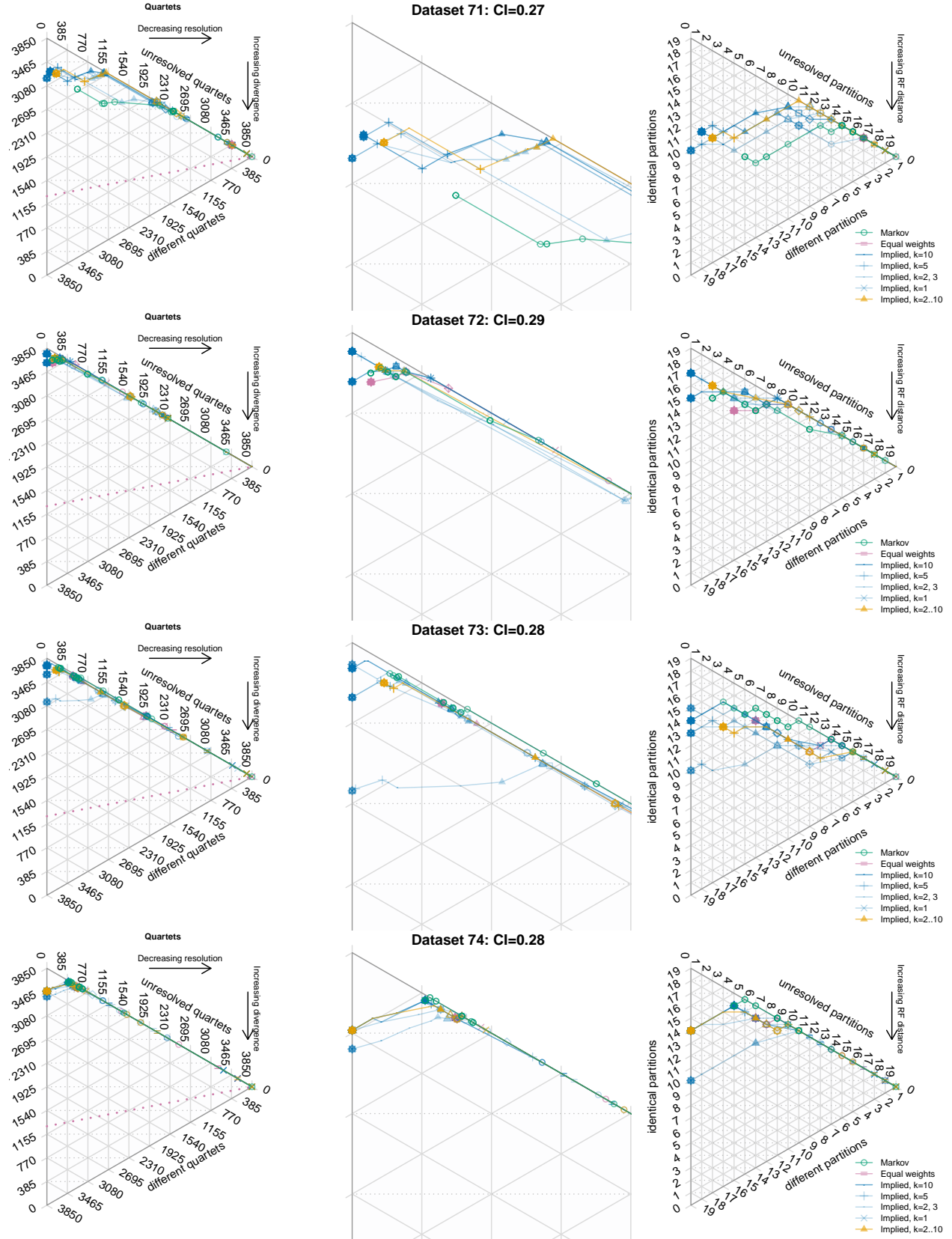


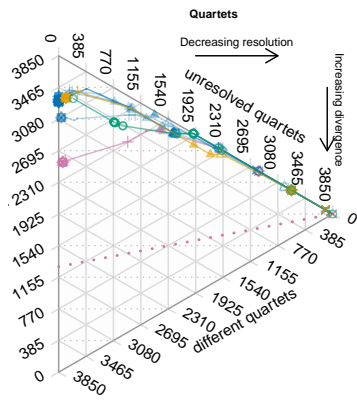
Dataset 68: CI=0.31



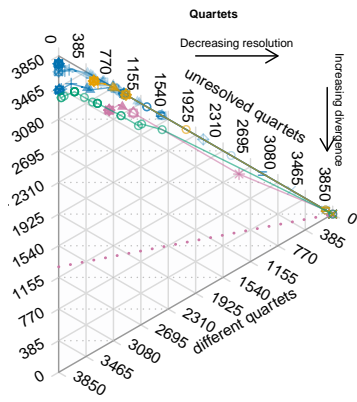
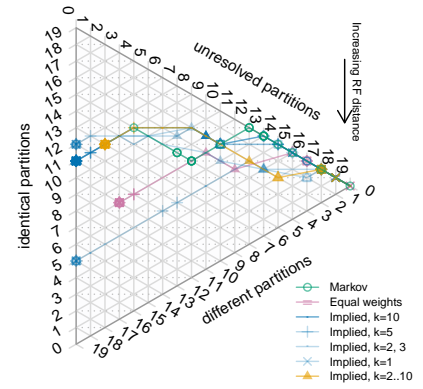


0.9 Trees 71–80

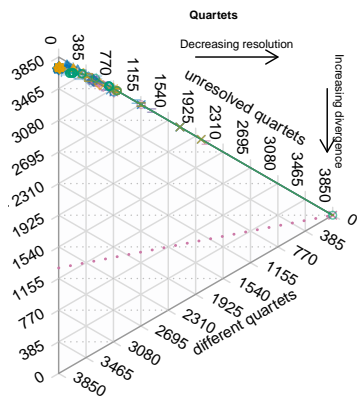
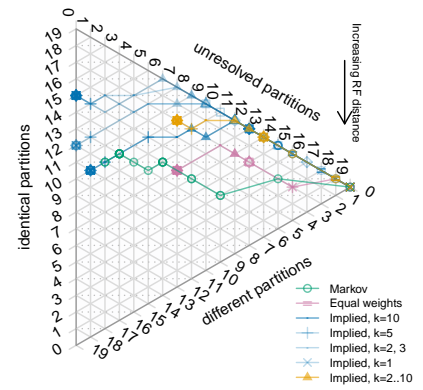




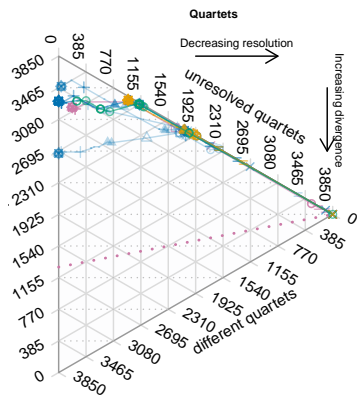
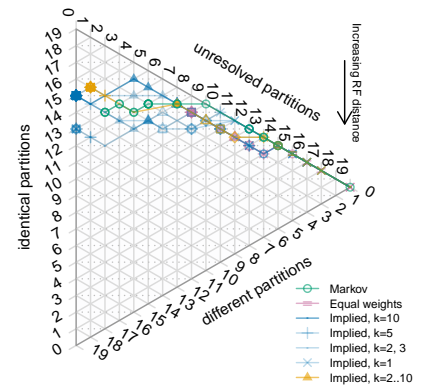
Dataset 75: CI=0.24



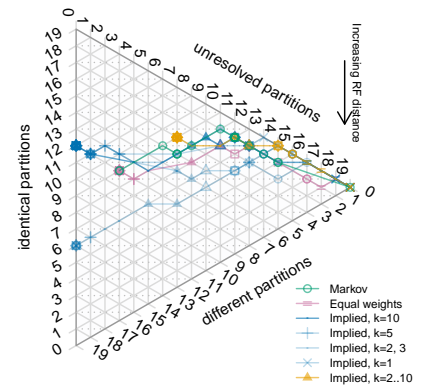
Dataset 76: CI=0.26

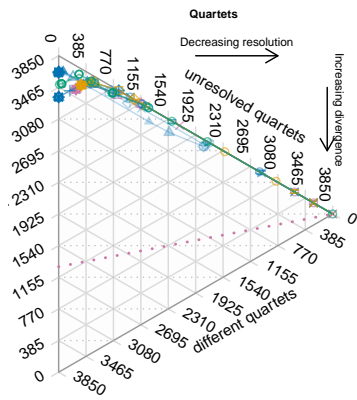


Dataset 77: CI=0.28

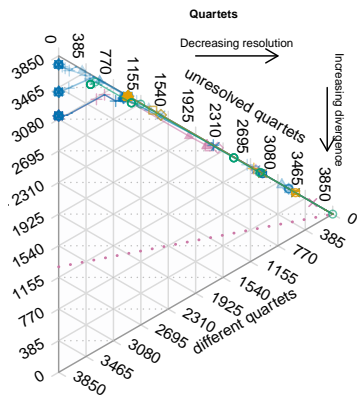
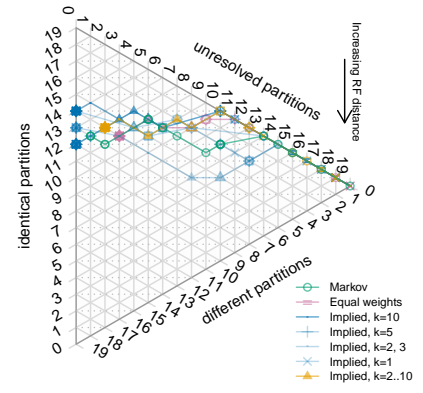
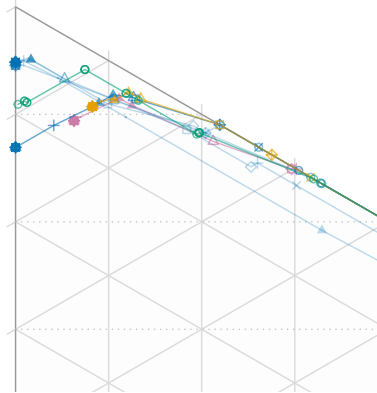


Dataset 78: CI=0.24

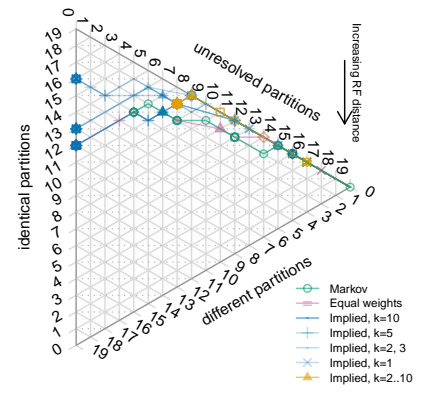
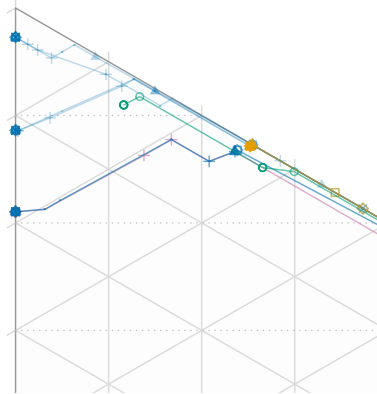




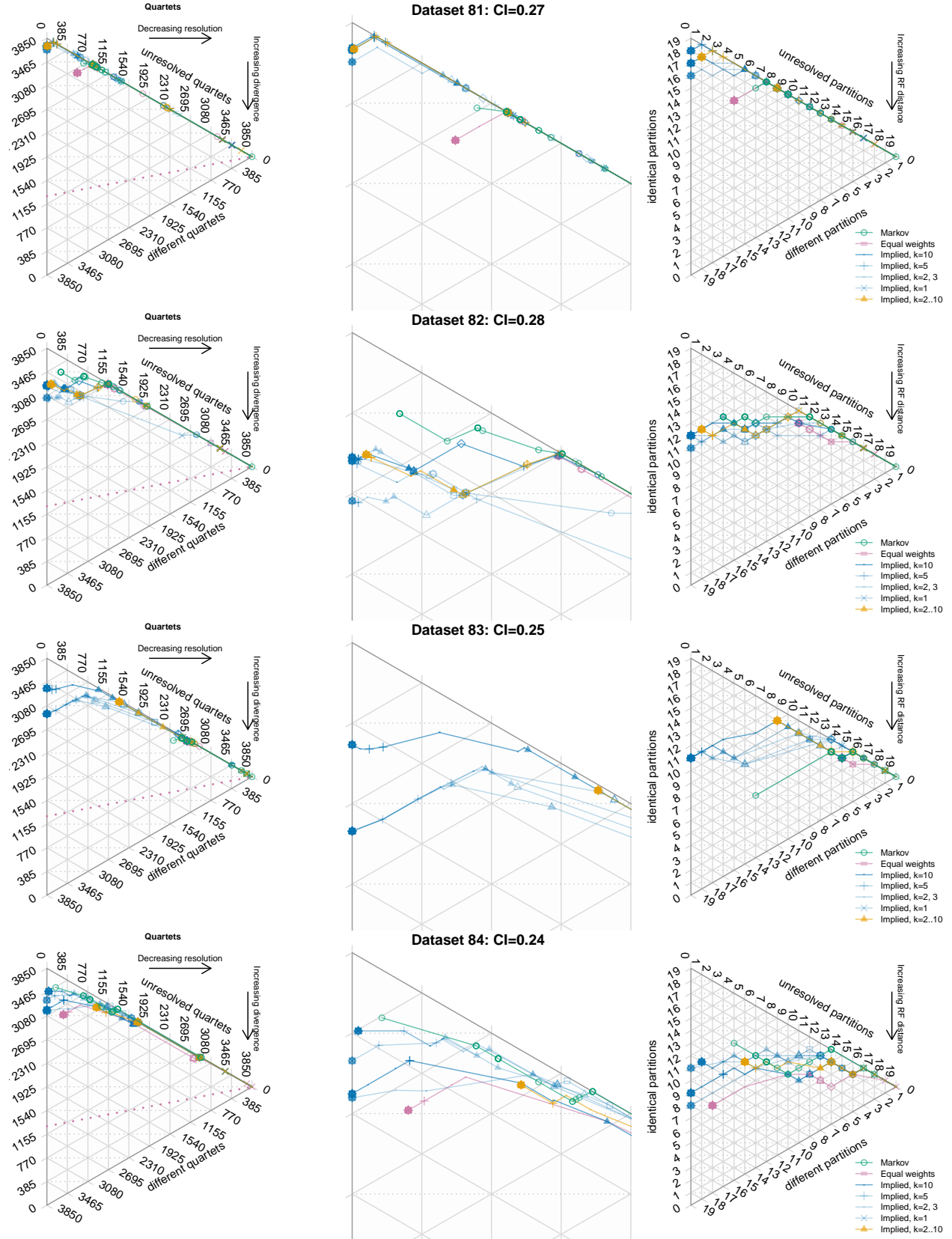
Dataset 79: CI=0.24

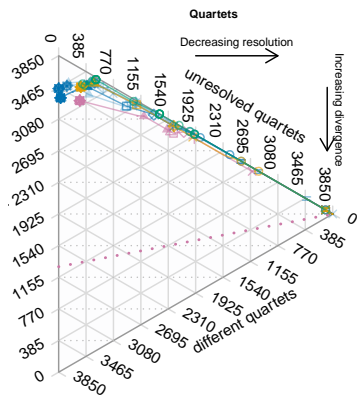


Dataset 80: CI=0.27

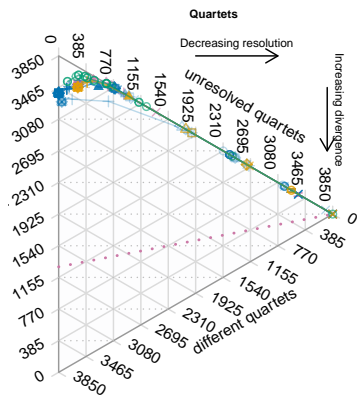
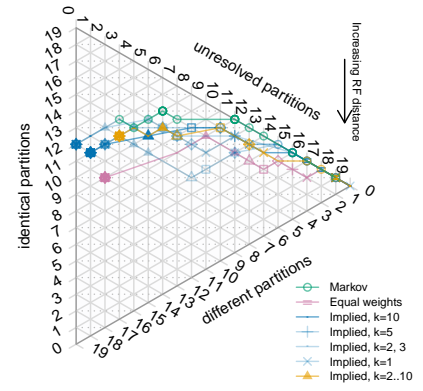
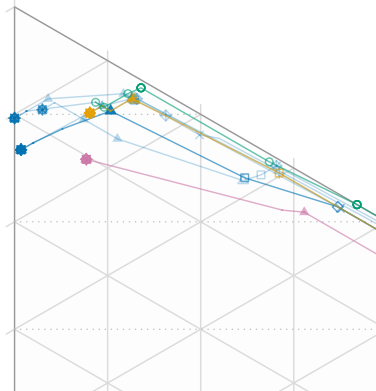


0.10 Trees 81–90

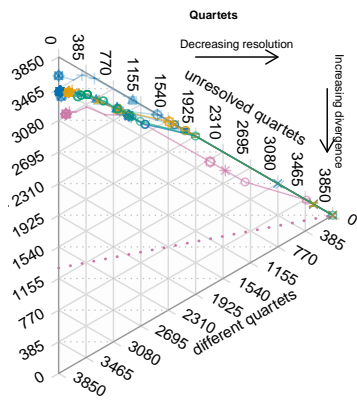
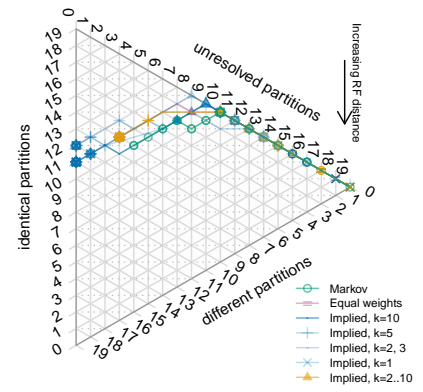
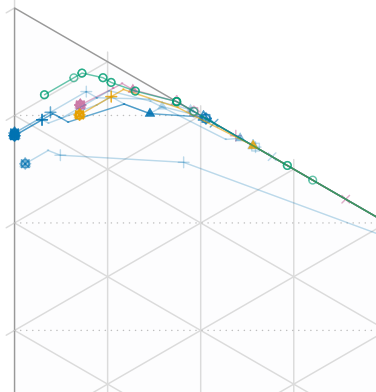




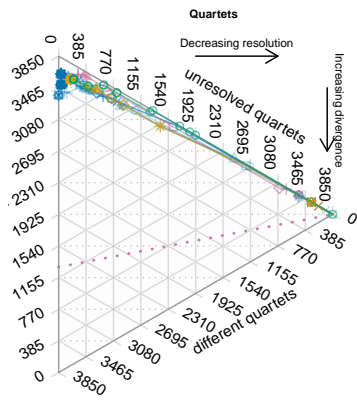
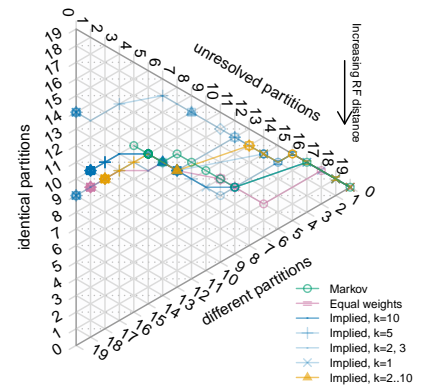
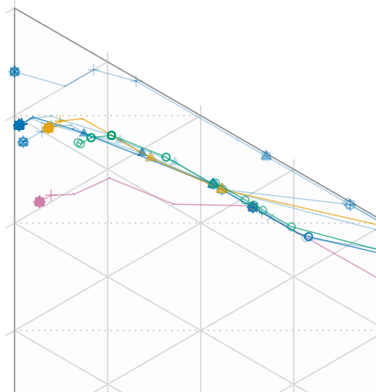
Dataset 85: CI=0.27



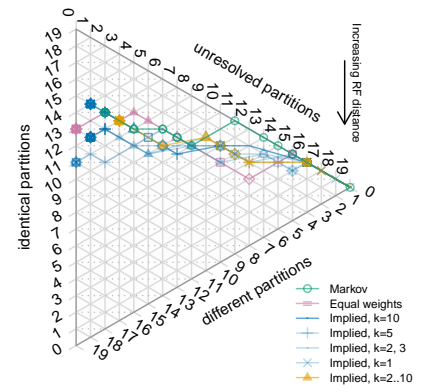
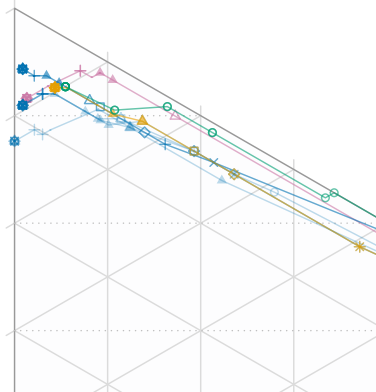
Dataset 86: CI=0.27

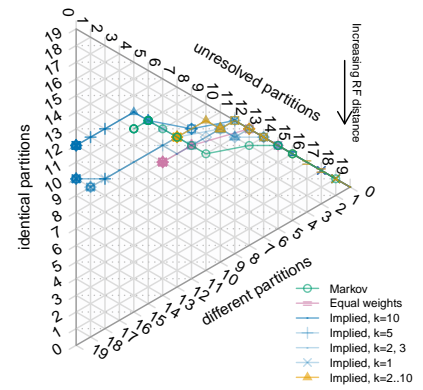
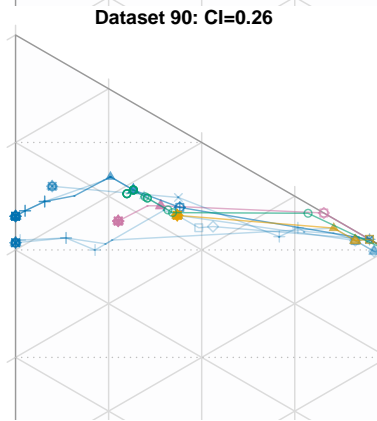
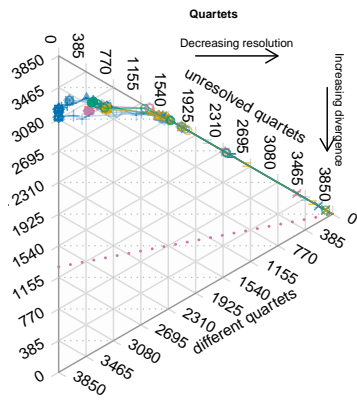
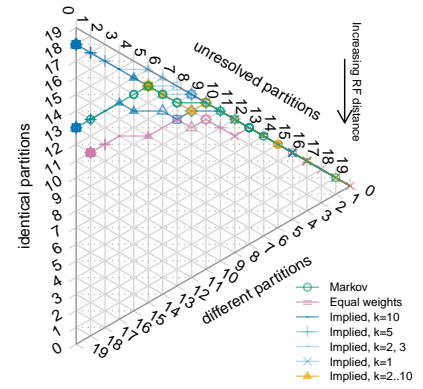
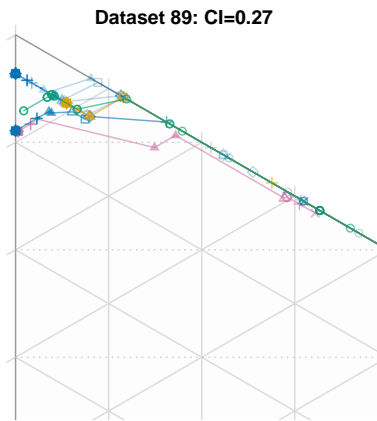
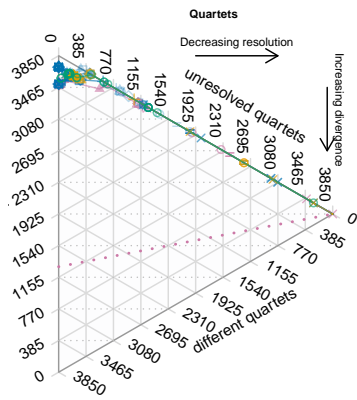


Dataset 87: CI=0.23

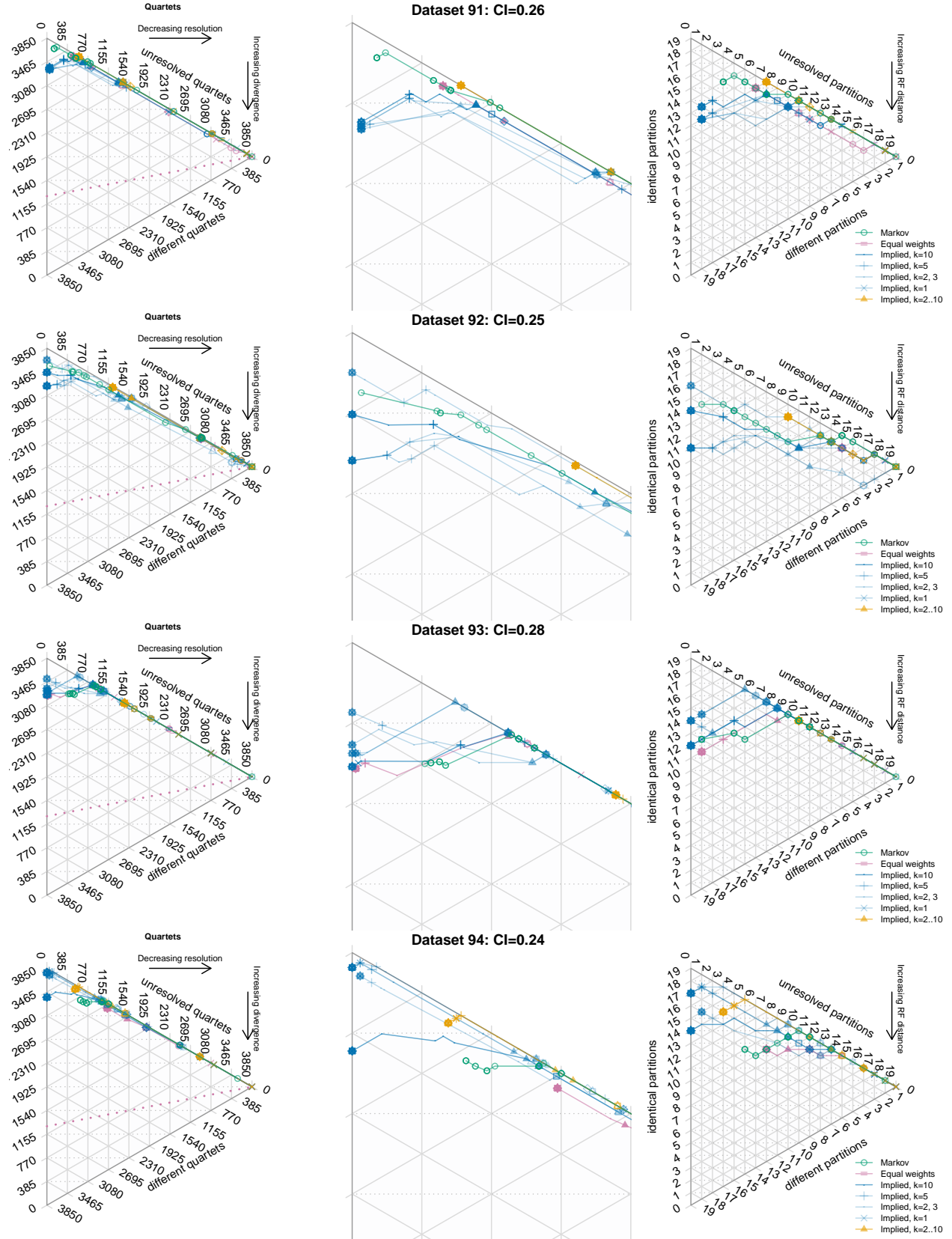


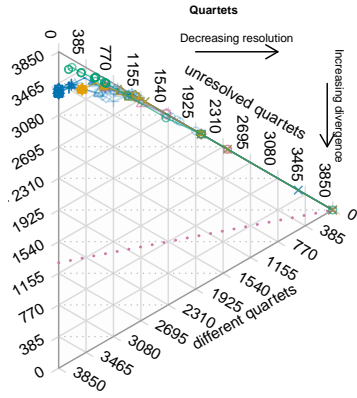
Dataset 88: CI=0.25



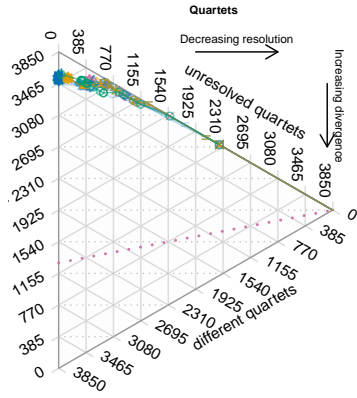
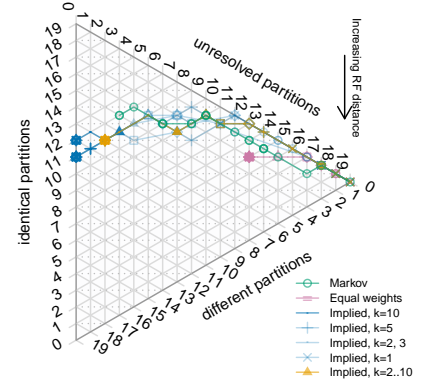


0.11 Trees 91–100

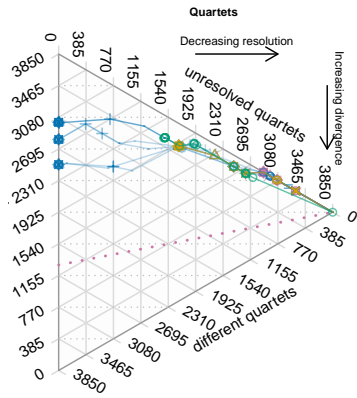
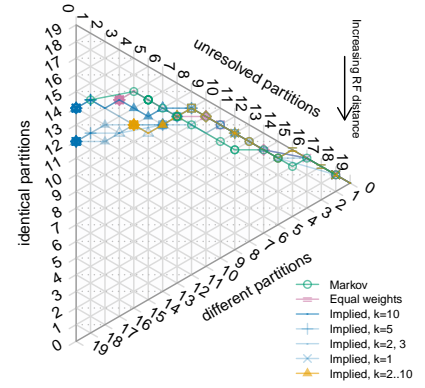




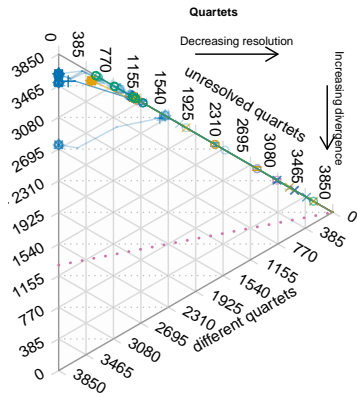
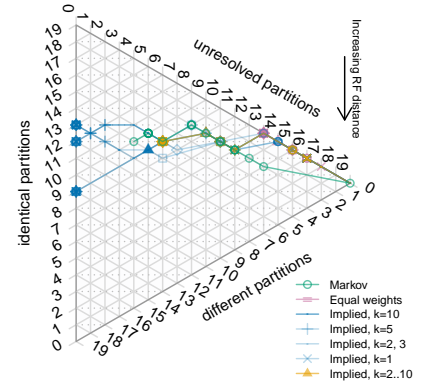
Dataset 95: CI=0.24



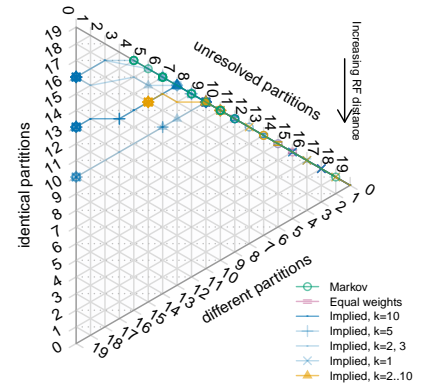
Dataset 96: CI=0.26

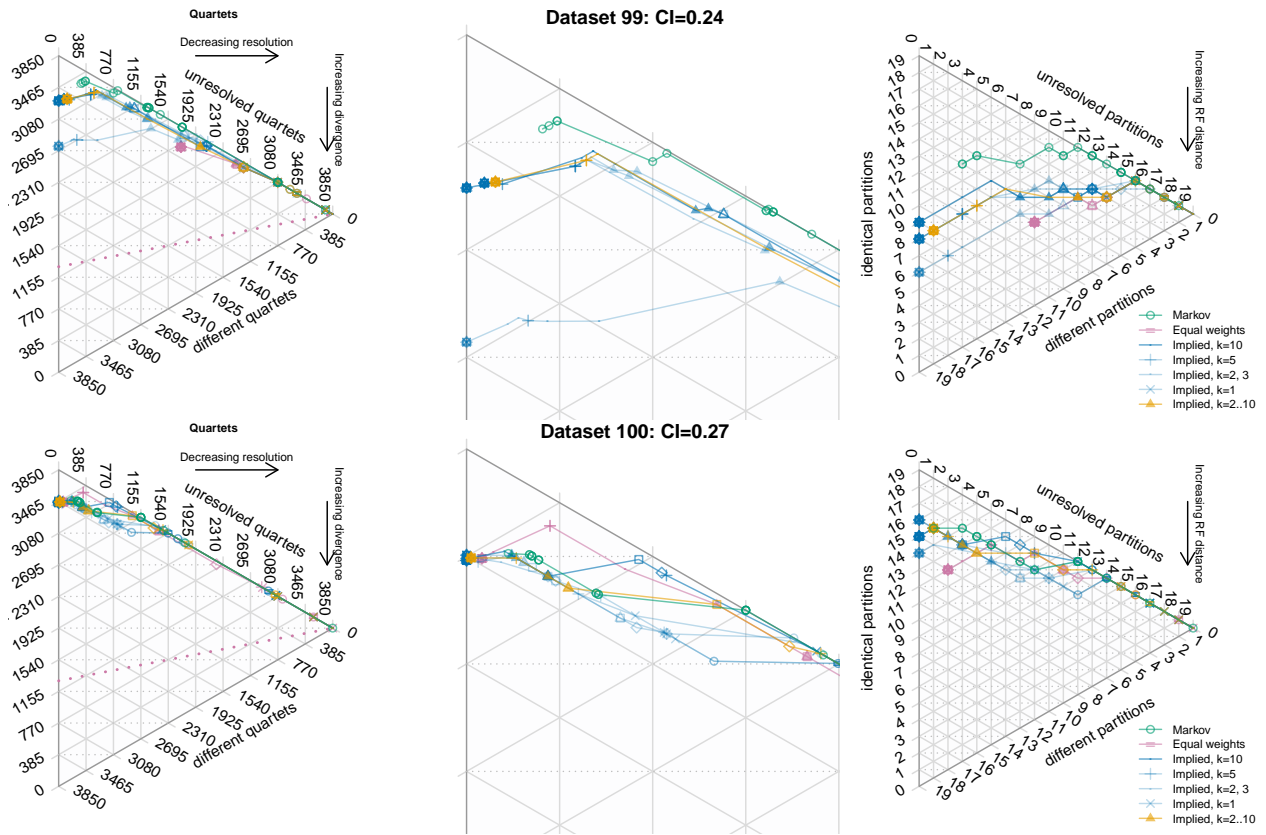


Dataset 97: CI=0.27



Dataset 98: CI=0.26





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. 2019 Bayesian and parsimony approaches reconstruct informative trees from simulated morphological datasets. *Biology Letters* **15**, 20180632. (doi:10.1098/rsbl.2018.0632)