

Resolution and accuracy in Congreve & Lamsdell matrices

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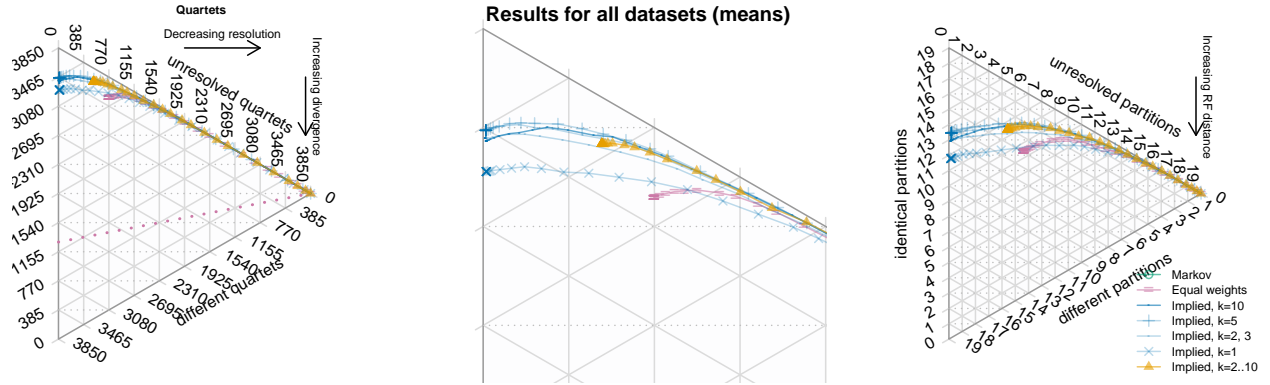
2019-02-06

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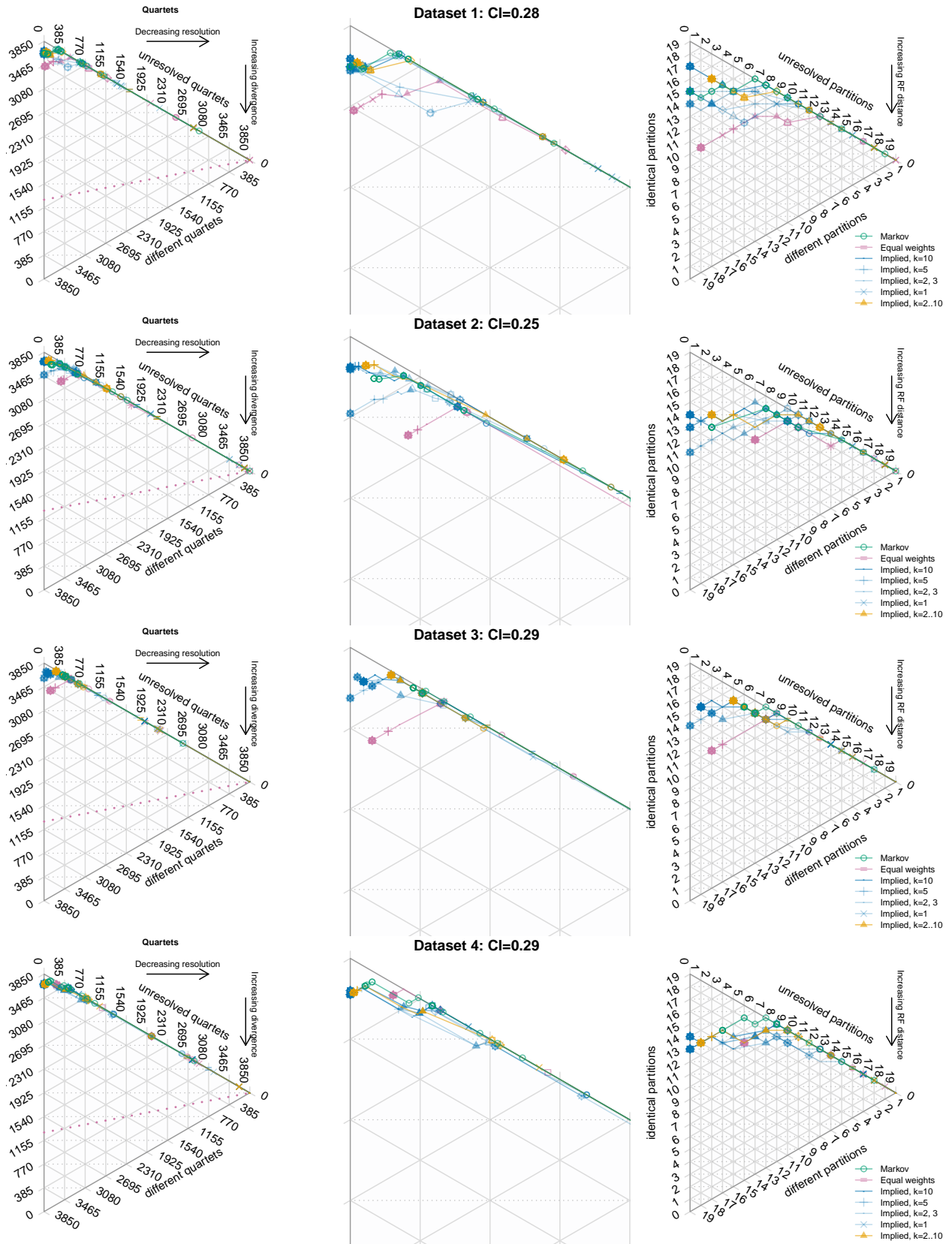
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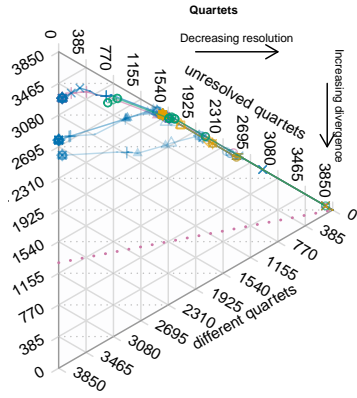
This page depicts the analytical results of all 100 matrices generated by Congreve & Lamsdell [1] using a ternary plotting approach [2], with quartets and partitions used as distance metrics.

0.1 Summary

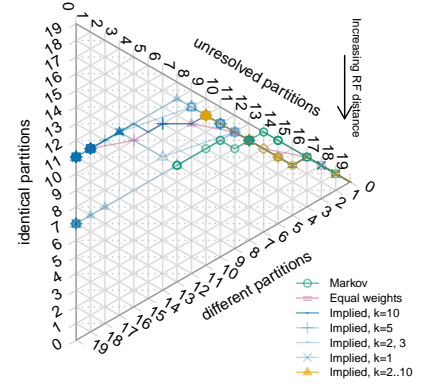
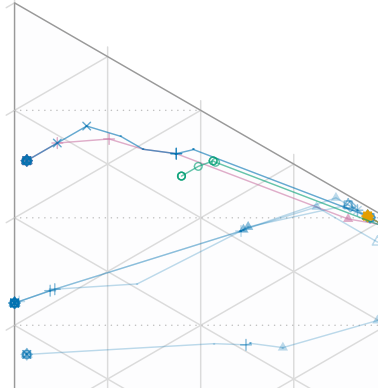


0.2 Trees 1–10

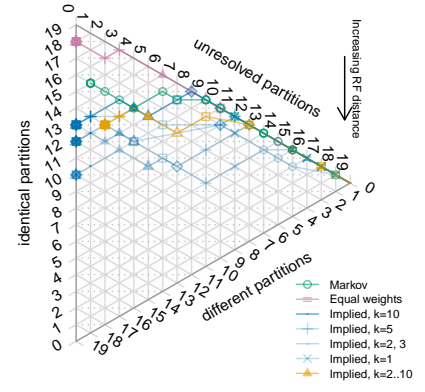
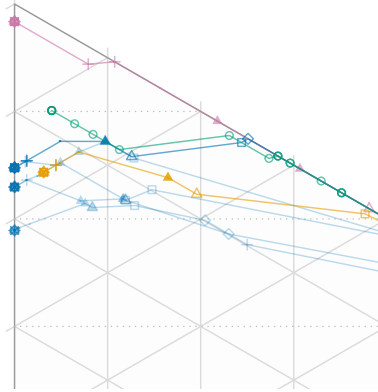




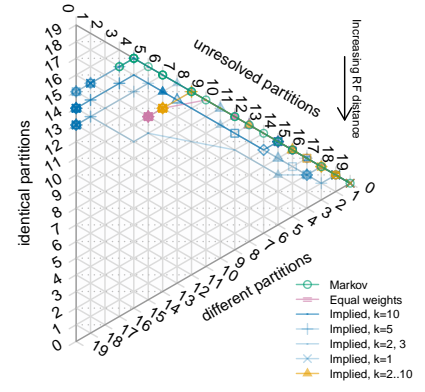
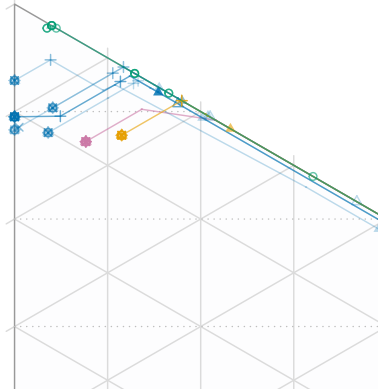
Dataset 5: CI=0.26



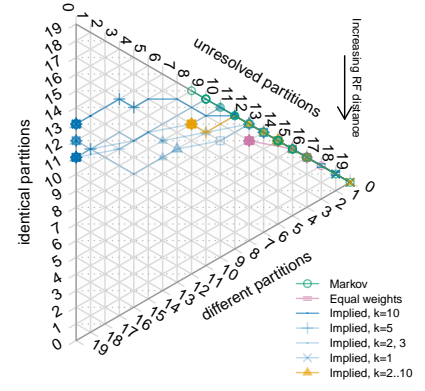
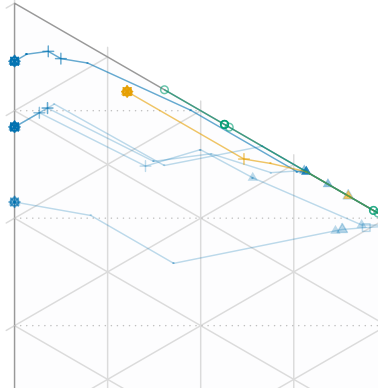
Dataset 6: CI=0.26

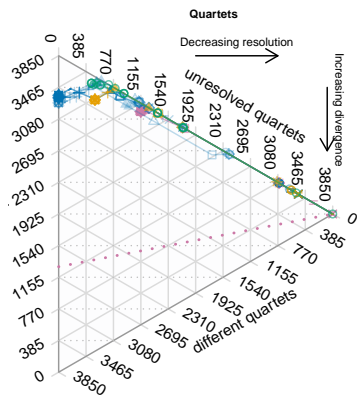


Dataset 7: CI=0.27

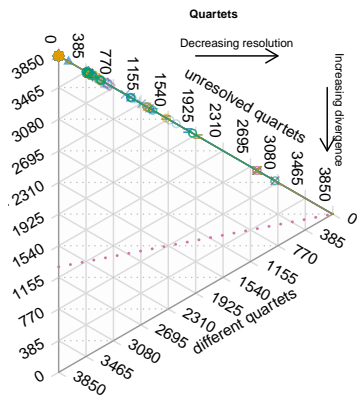
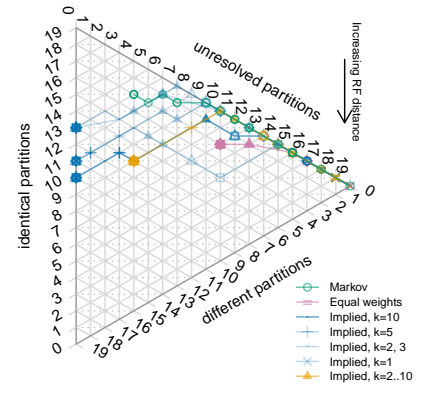
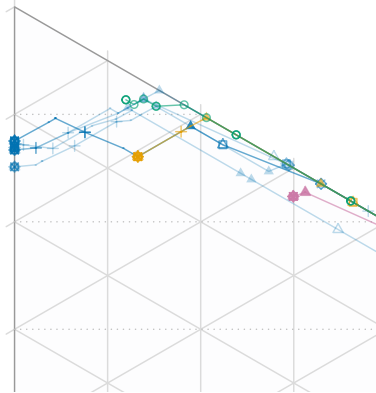


Dataset 8: CI=0.25

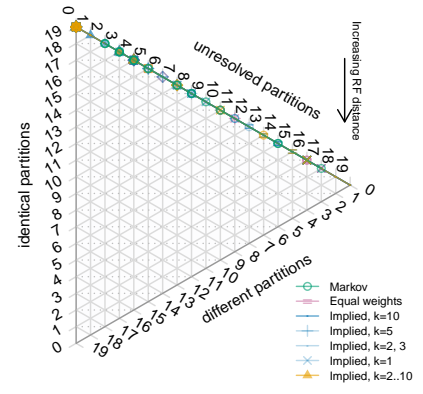
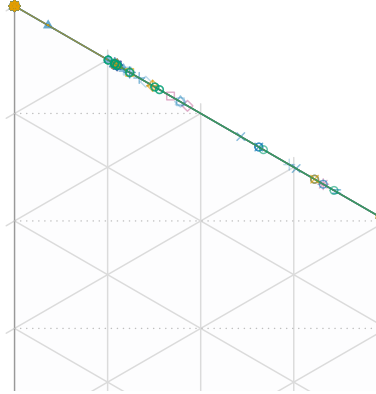




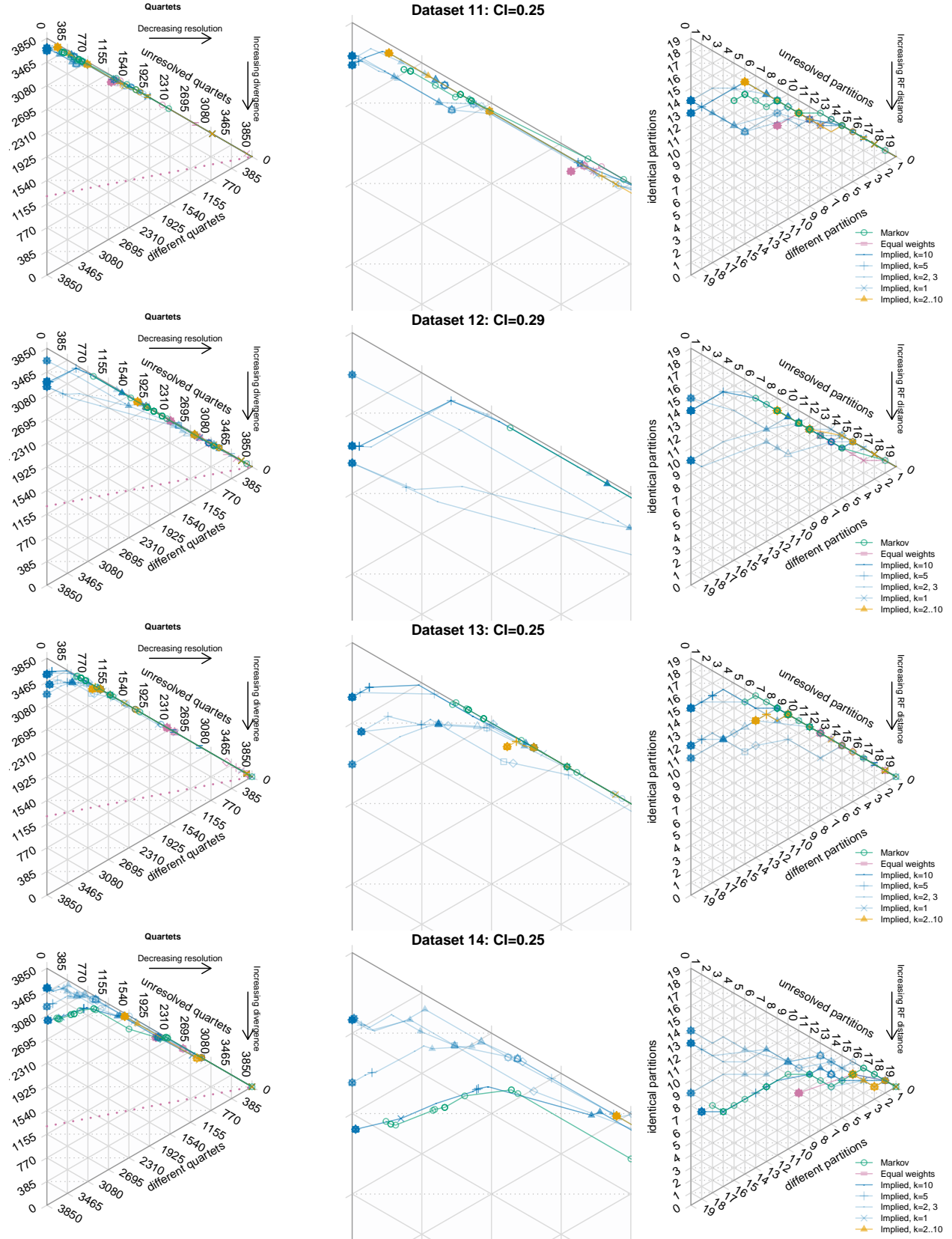
Dataset 9: CI=0.24

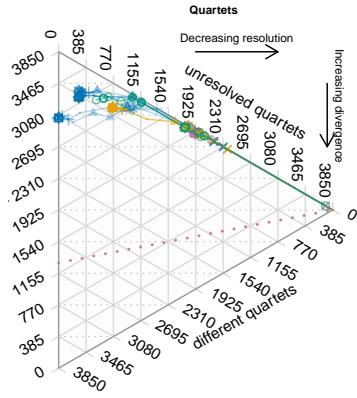


Dataset 10: CI=0.29

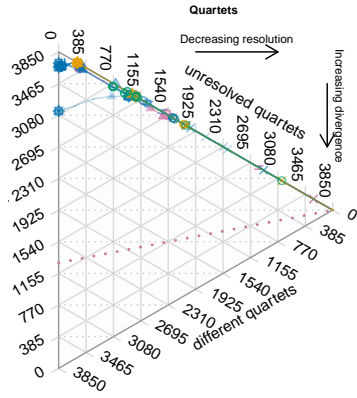
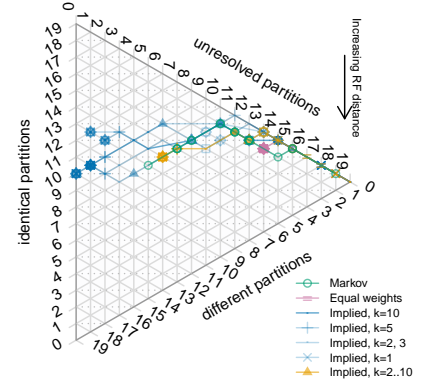
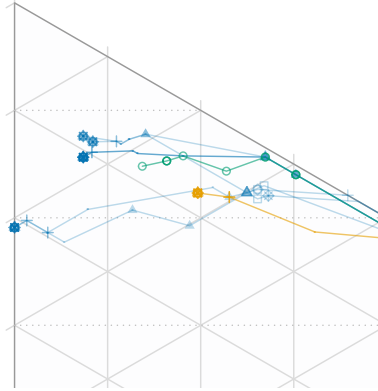


0.3 Trees 11–20

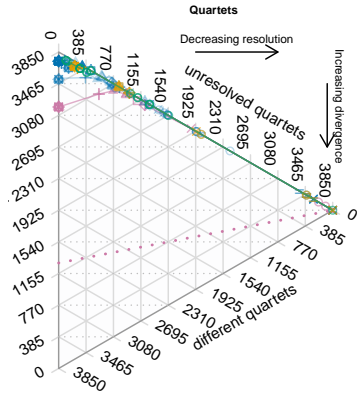
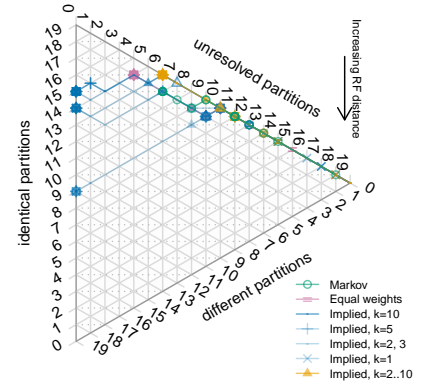
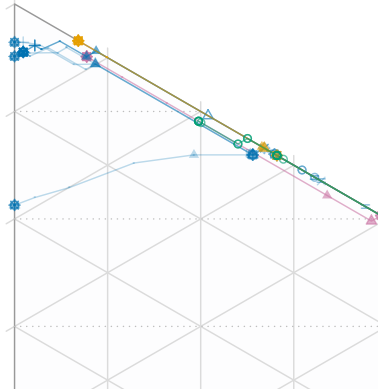




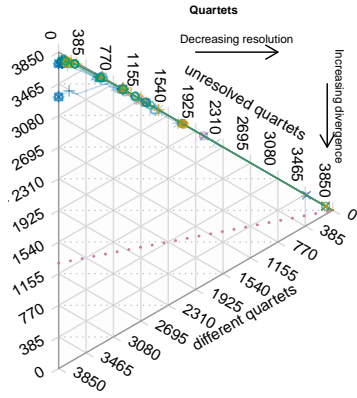
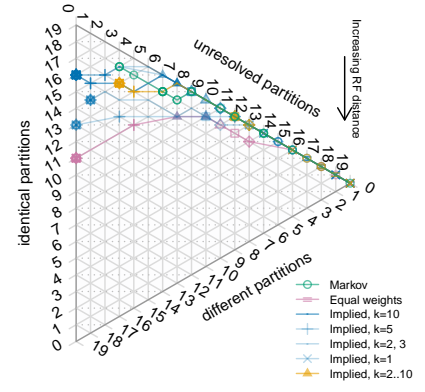
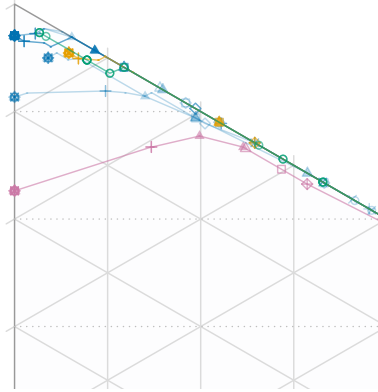
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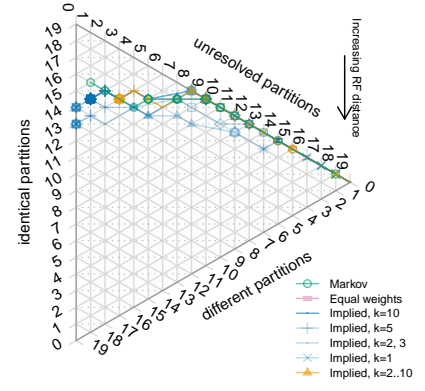
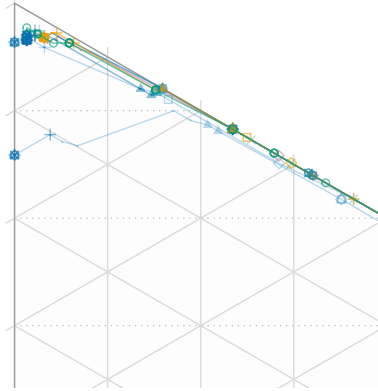
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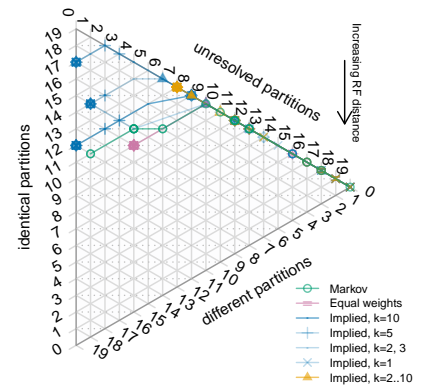
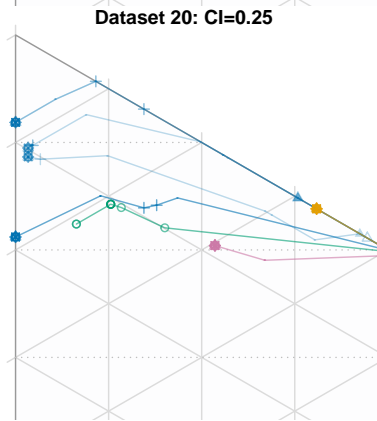
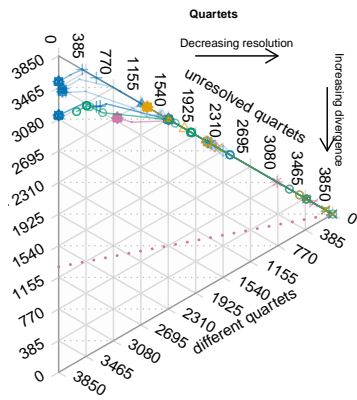
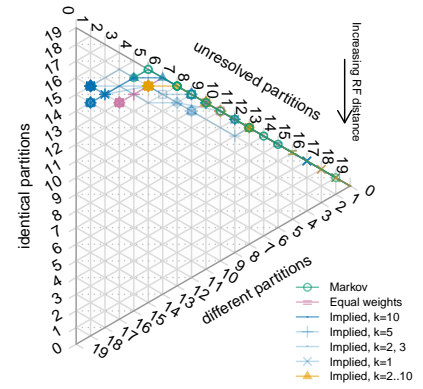
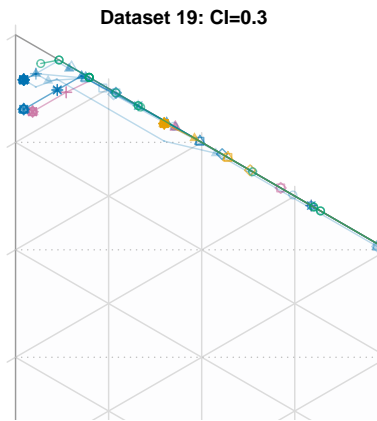
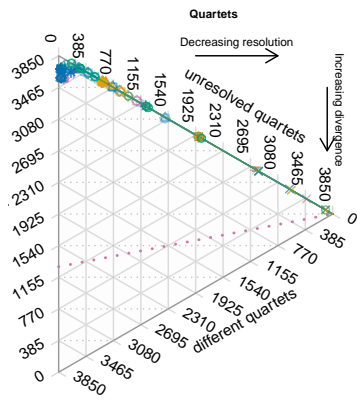


Dataset 17: CI=0.27

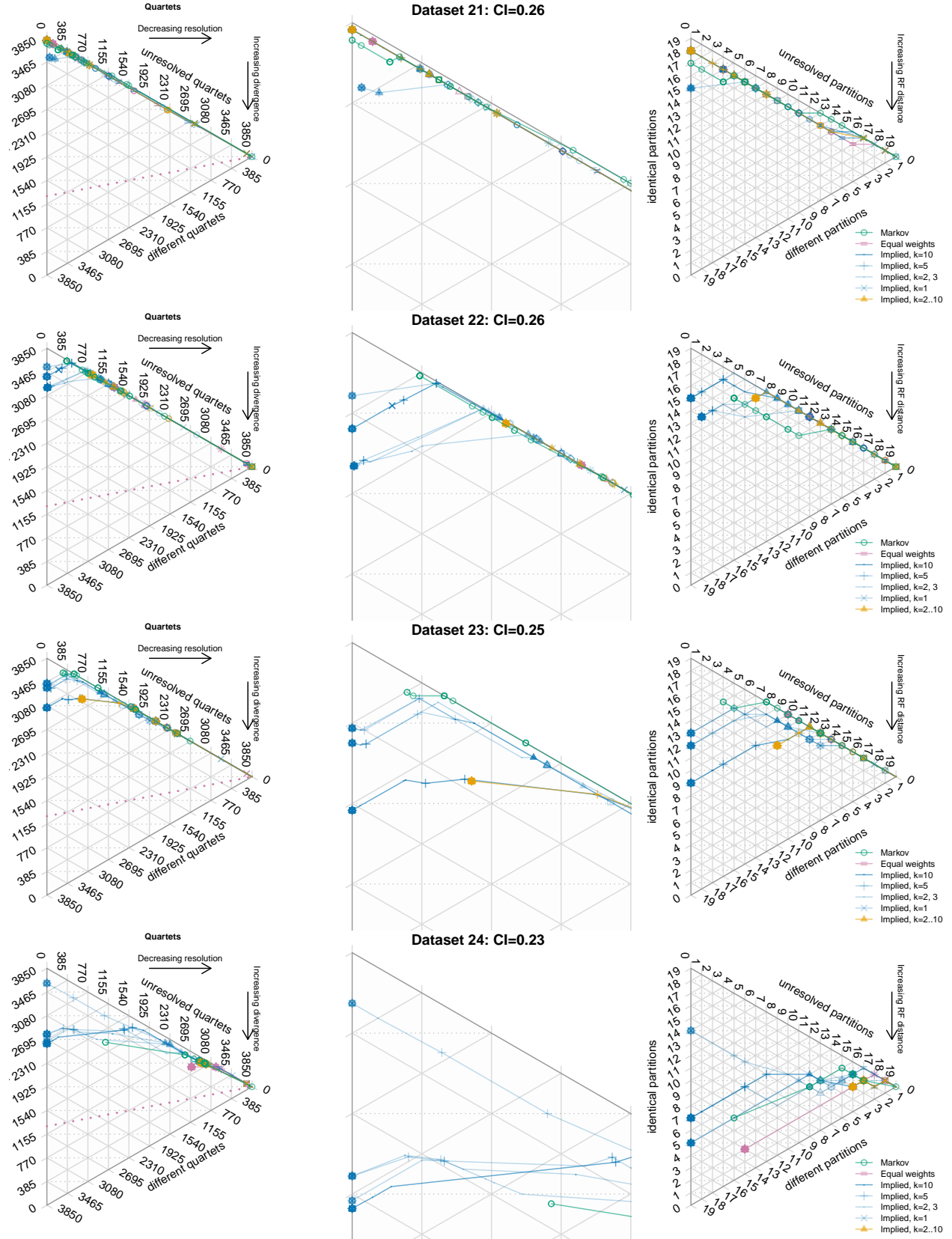


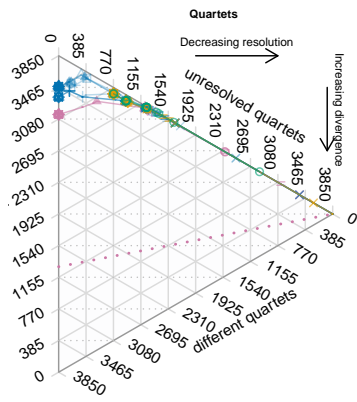
Dataset 18: CI=0.28



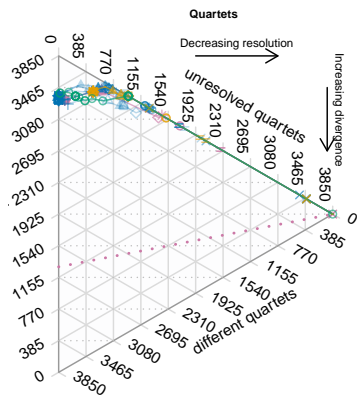
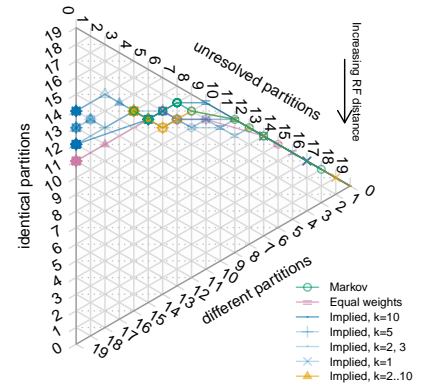


0.4 Trees 21–30

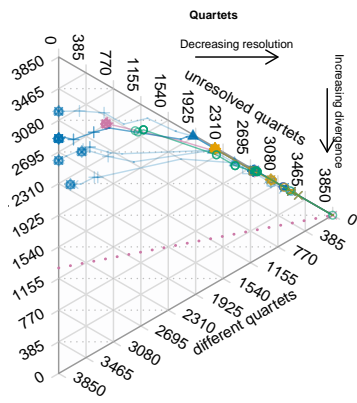
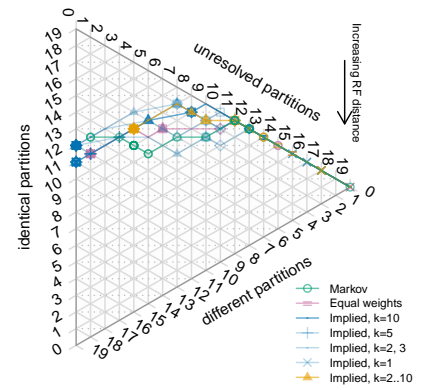




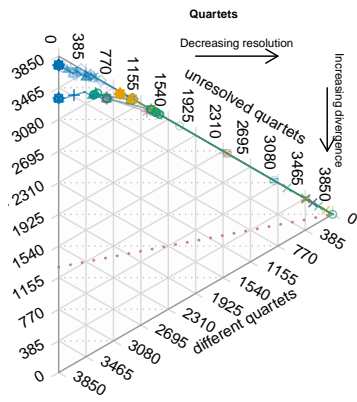
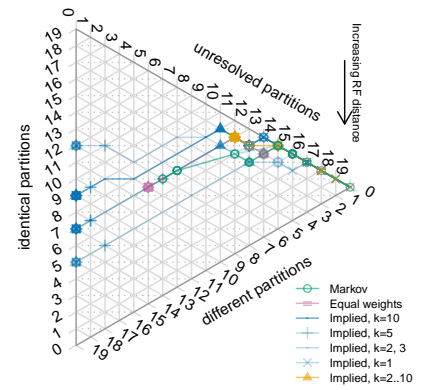
Dataset 25: CI=0.28



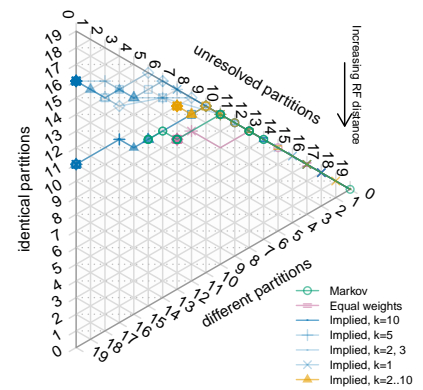
Dataset 26: CI=0.27

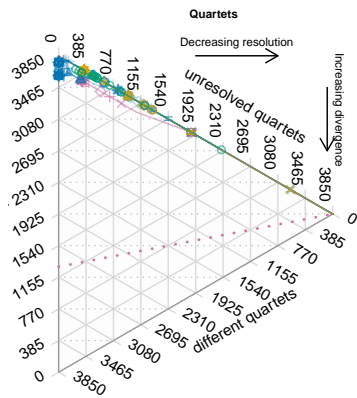


Dataset 27: CI=0.26

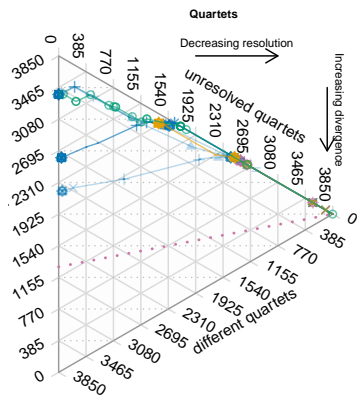
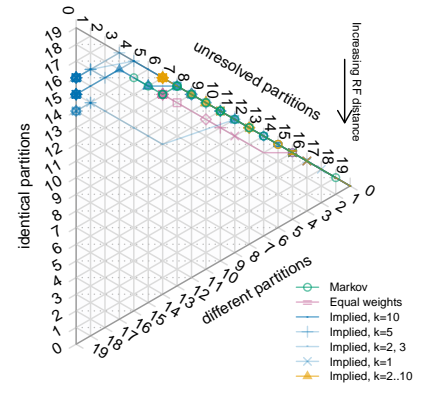
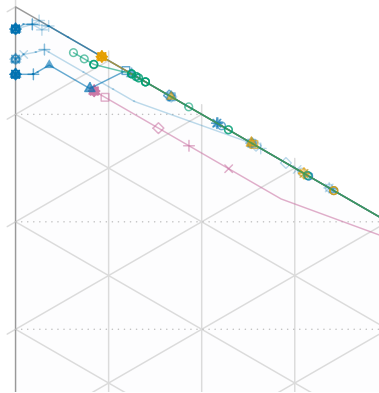


Dataset 28: CI=0.27

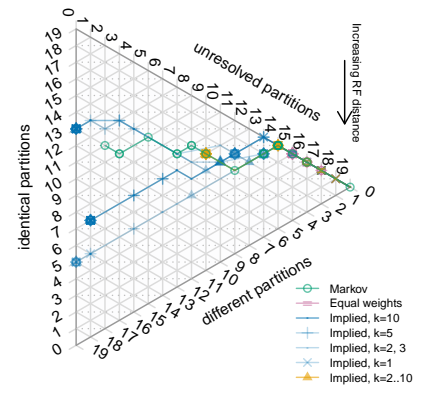
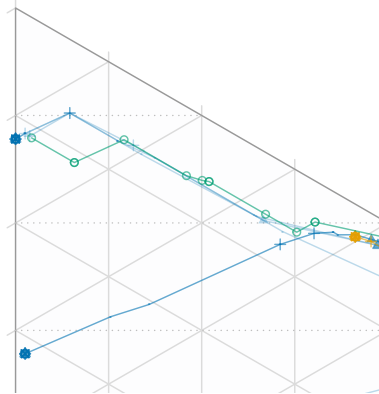




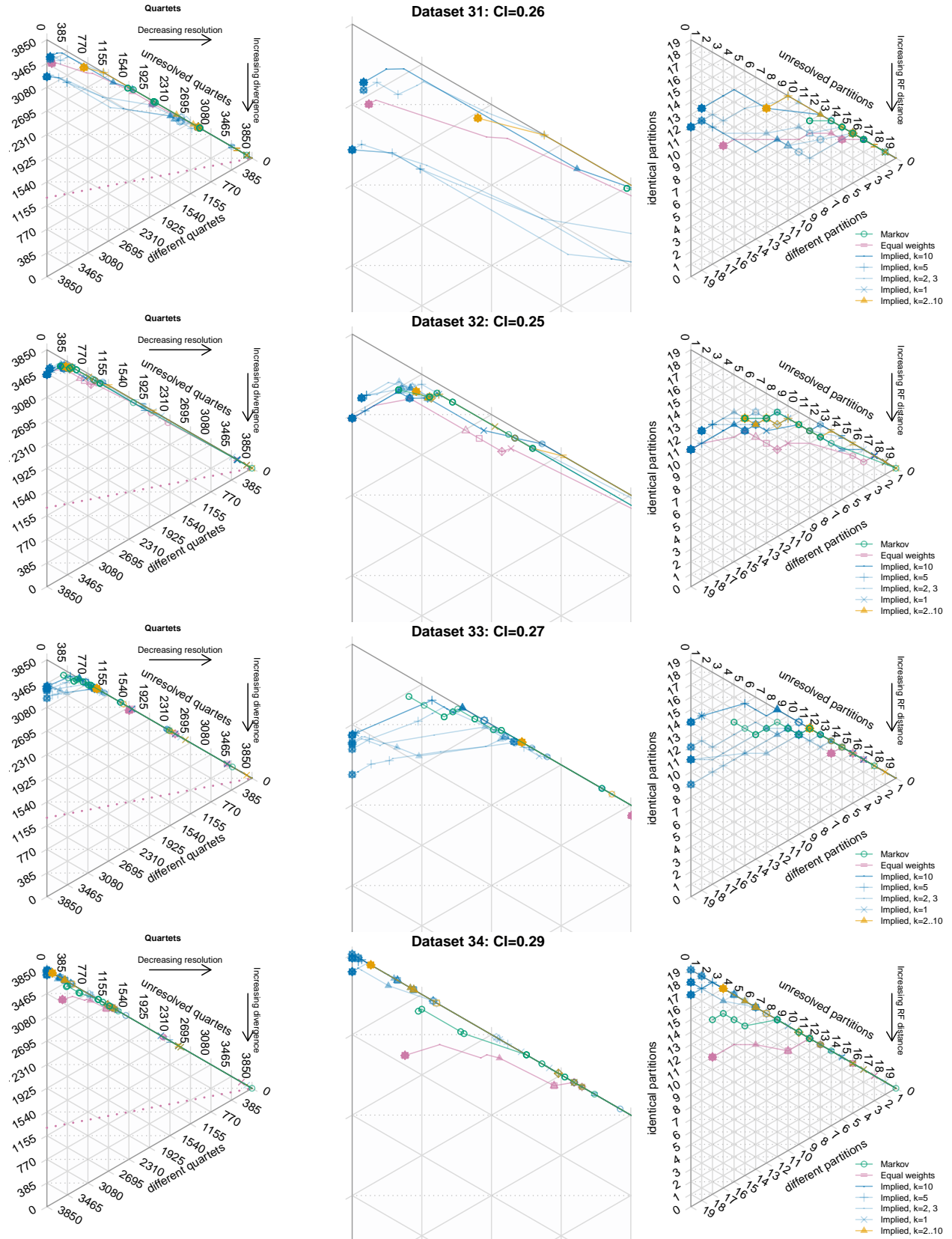
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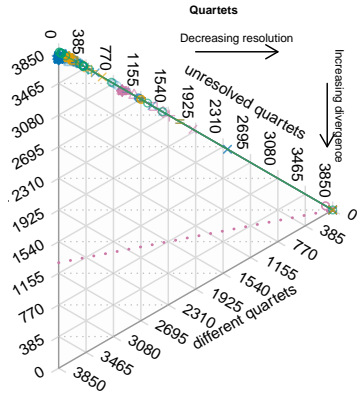


Dataset 30: CI=0.25

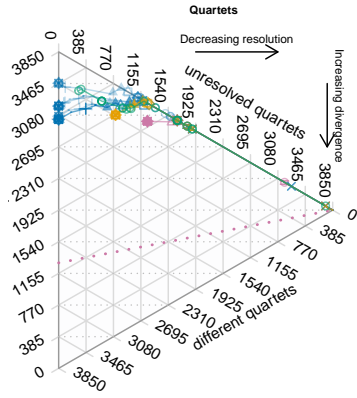
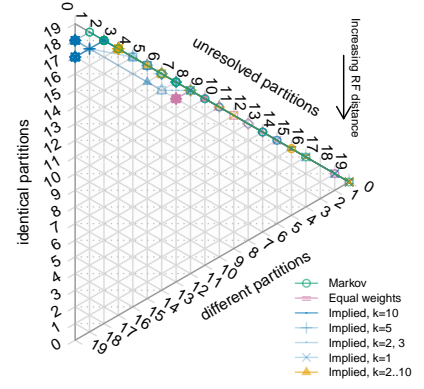


0.5 Trees 31–40

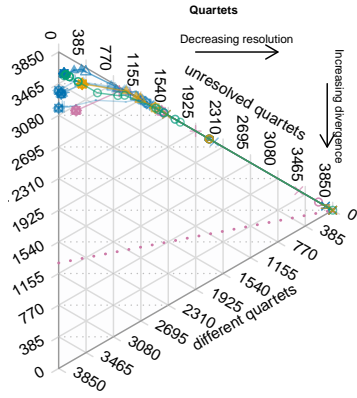
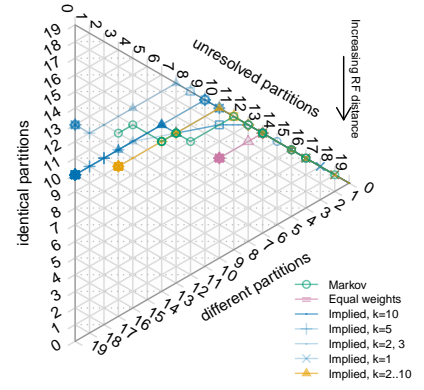




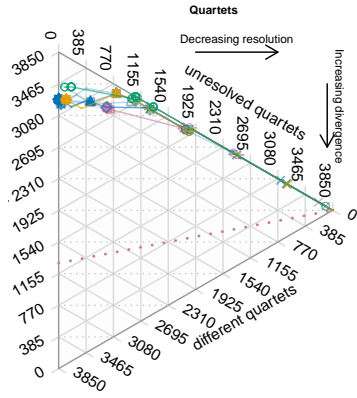
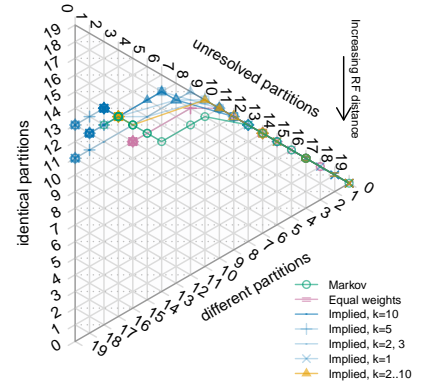
Dataset 35: CI=0.25



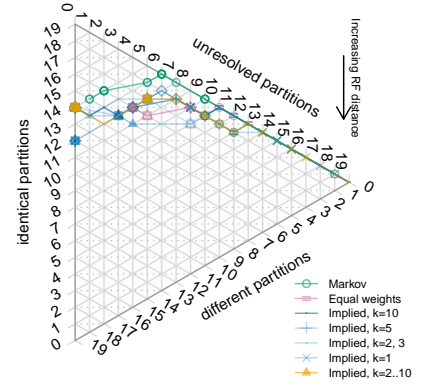
Dataset 36: CI=0.24

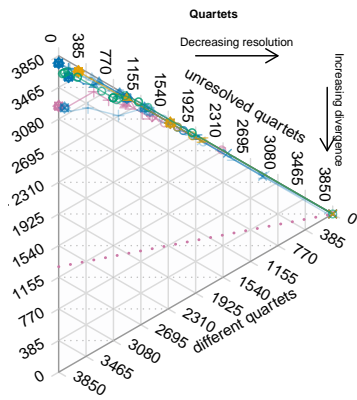


Dataset 37: CI=0.26

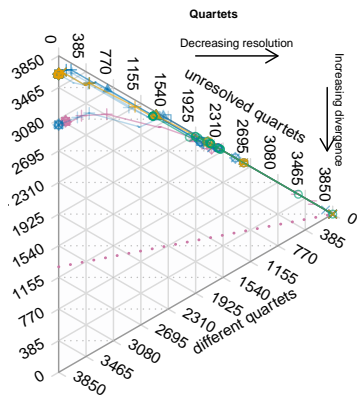
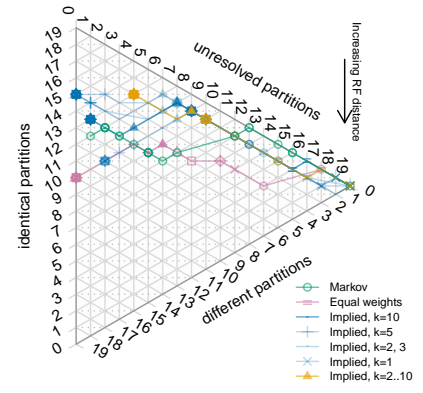
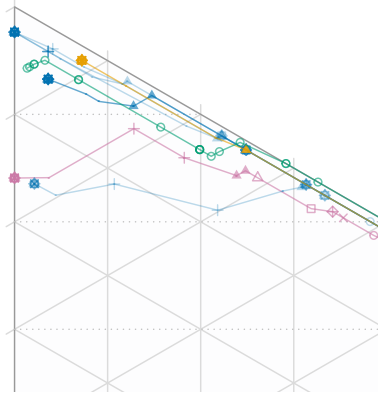


Dataset 38: CI=0.29

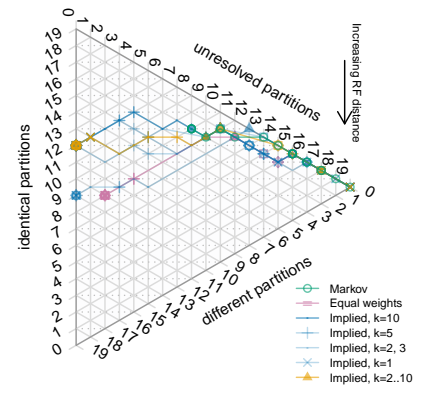
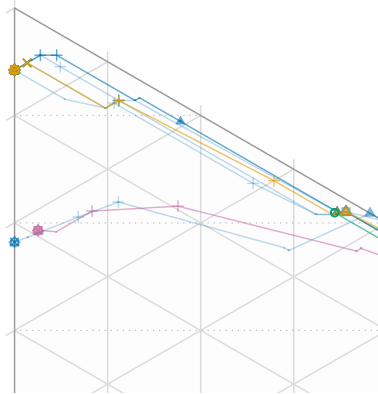




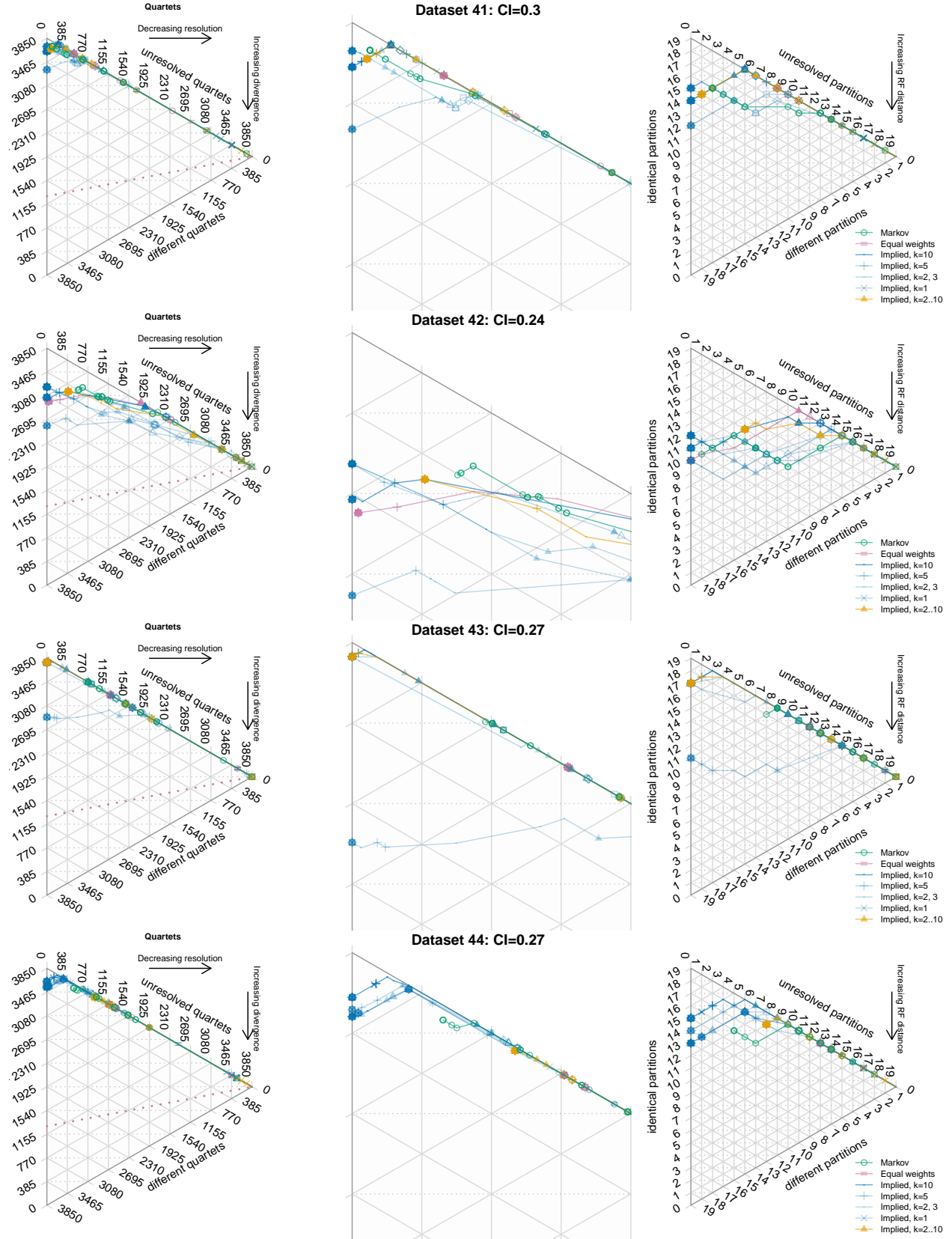
Dataset 39: CI=0.25

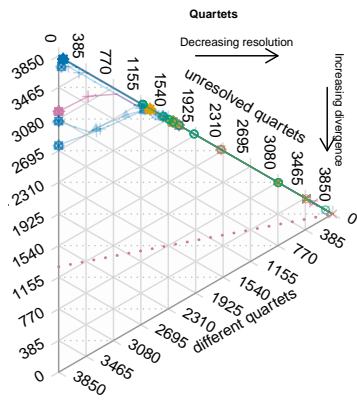


Dataset 40: CI=0.24

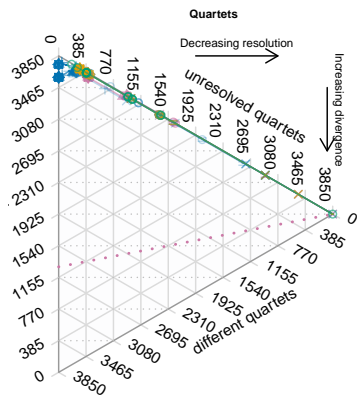
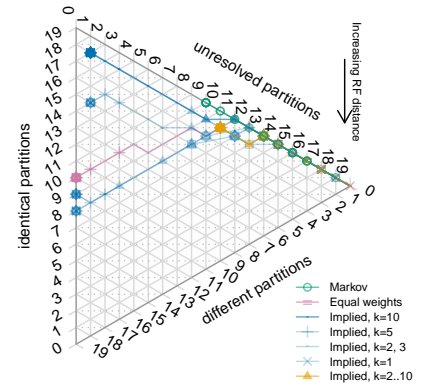


0.6 Trees 41–50

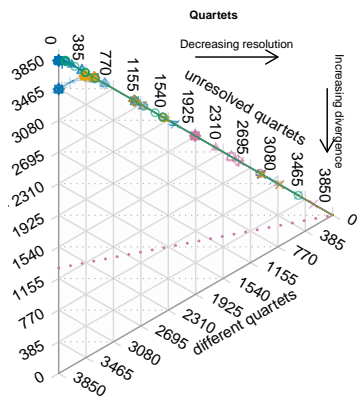
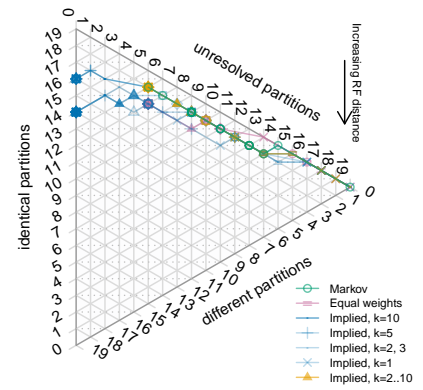




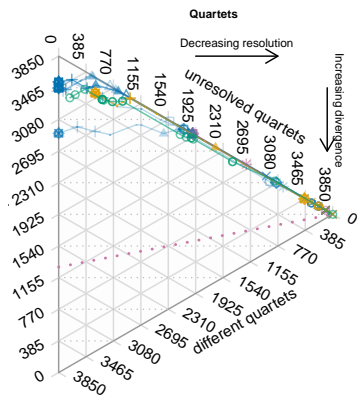
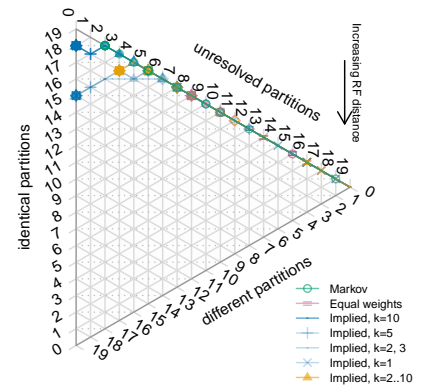
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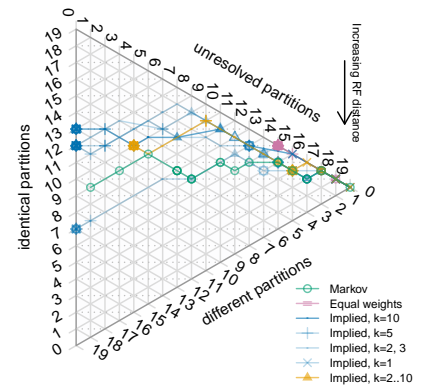
Dataset 46: CI=0.24

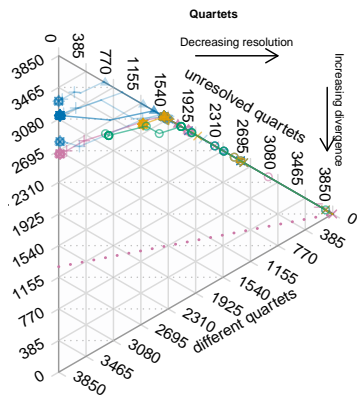


Dataset 47: CI=0.29

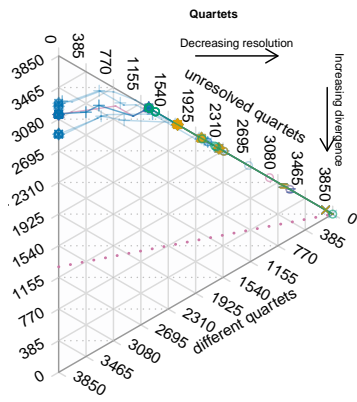
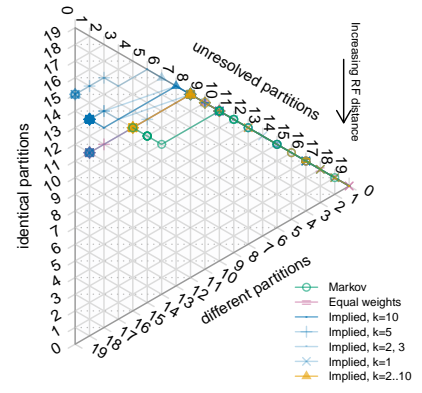
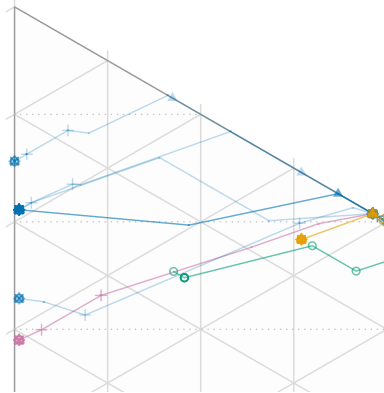


Dataset 48: CI=0.27

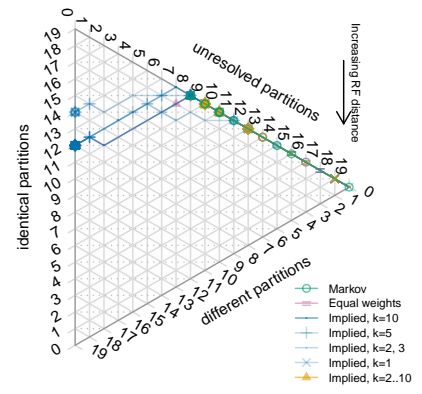
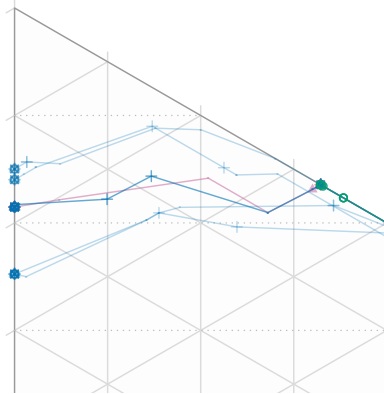




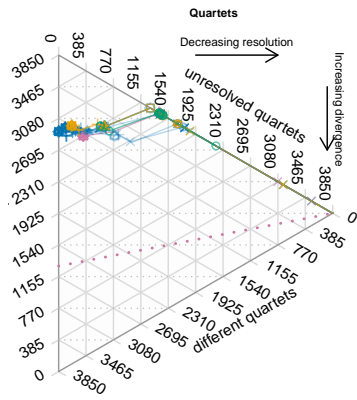
Dataset 49: CI=0.28



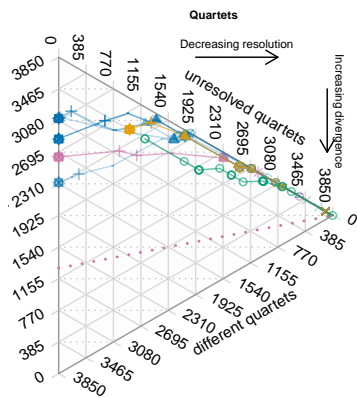
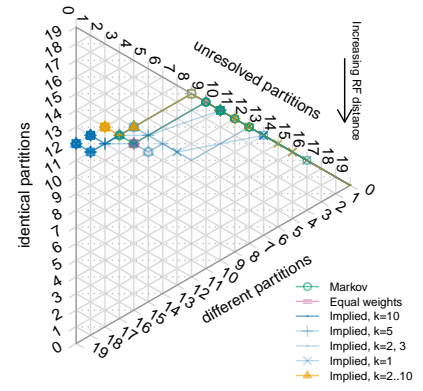
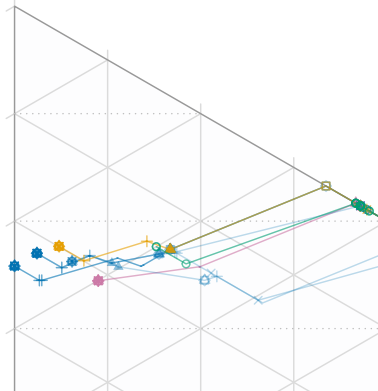
Dataset 50: CI=0.25



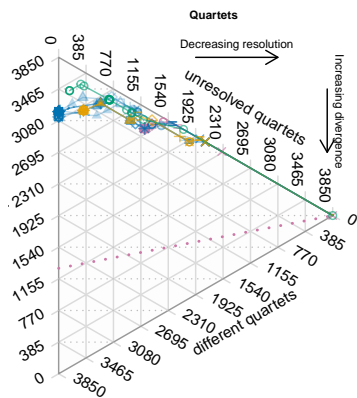
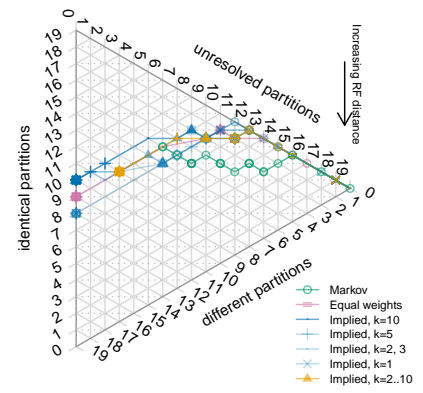
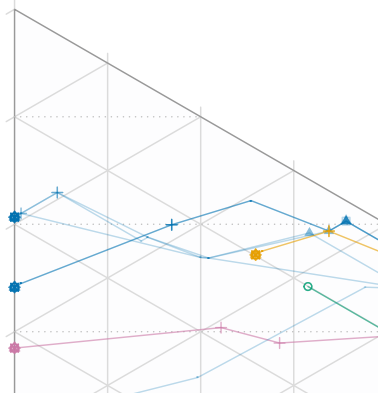
0.7 Trees 51–60



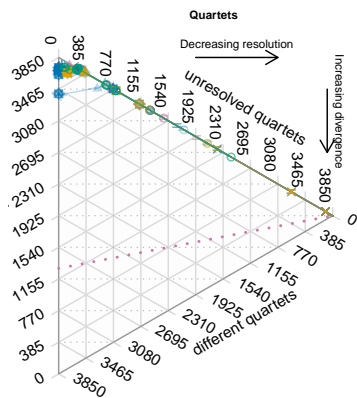
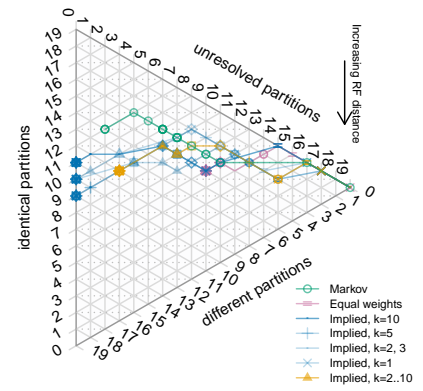
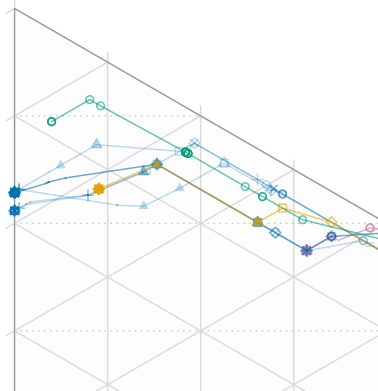
Dataset 51: CI=0.3



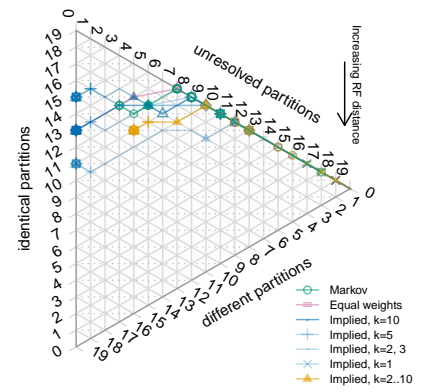
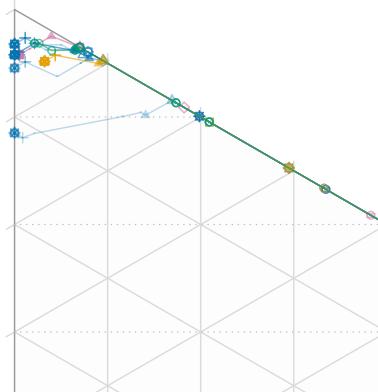
Dataset 52: CI=0.25

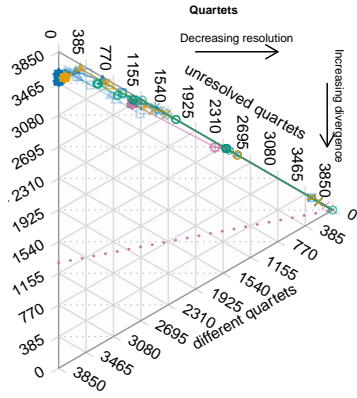


Dataset 53: CI=0.25

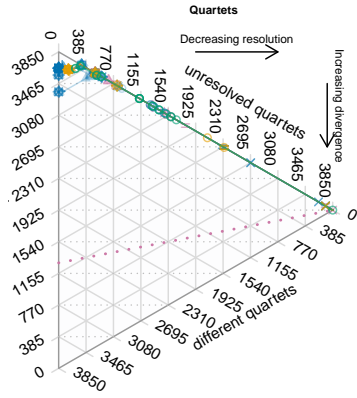
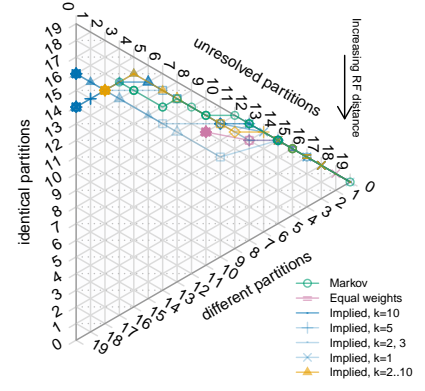
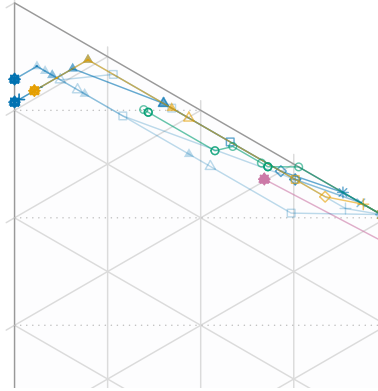


Dataset 54: CI=0.28

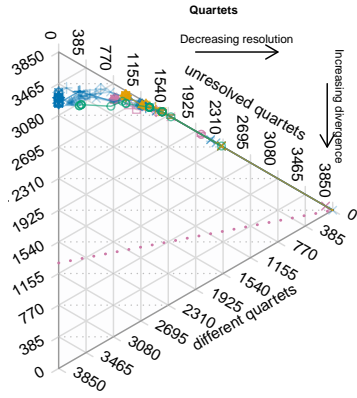
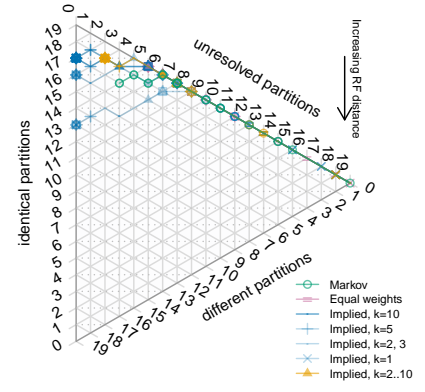
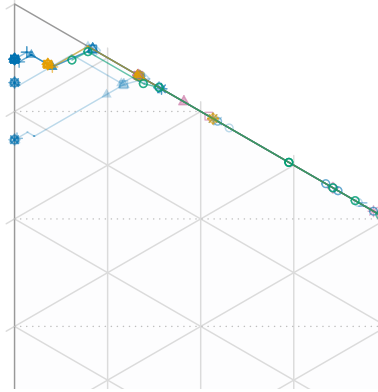




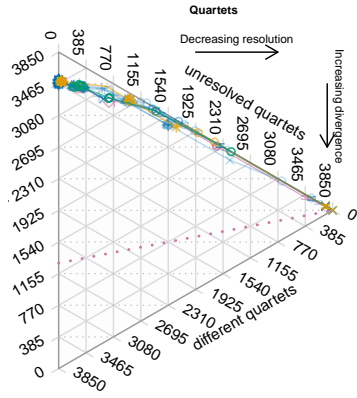
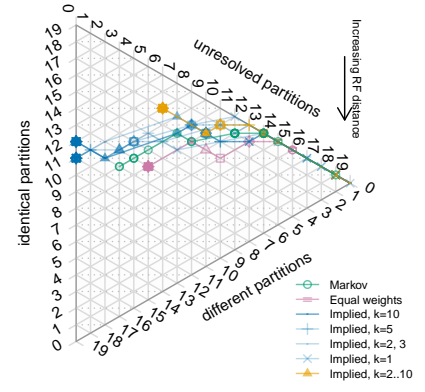
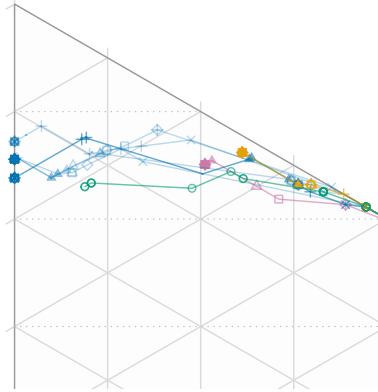
Dataset 55: CI=0.28



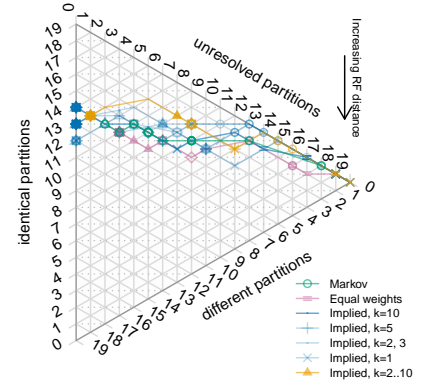
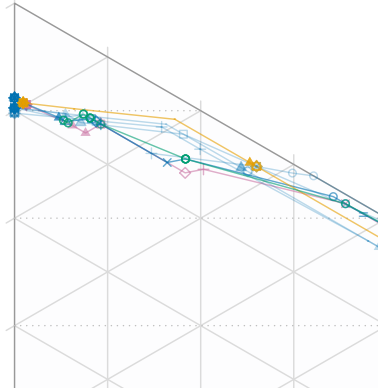
Dataset 56: CI=0.31

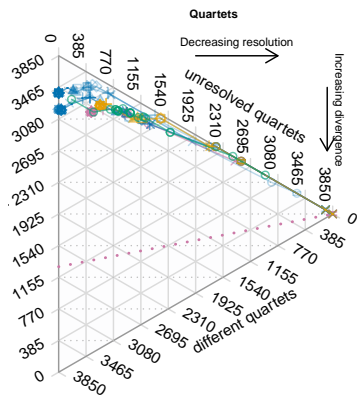


Dataset 57: CI=0.25

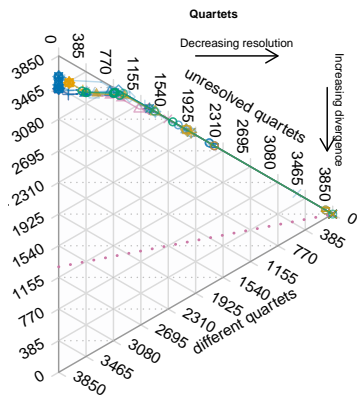
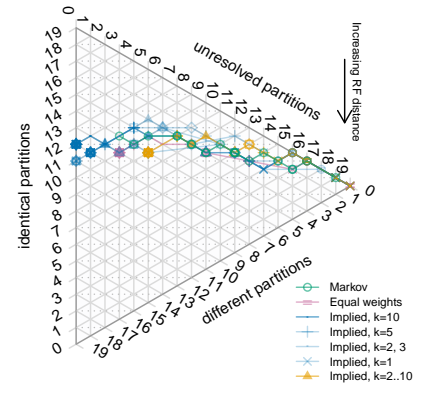
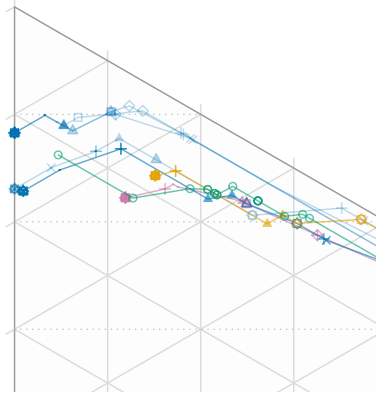


Dataset 58: CI=0.25

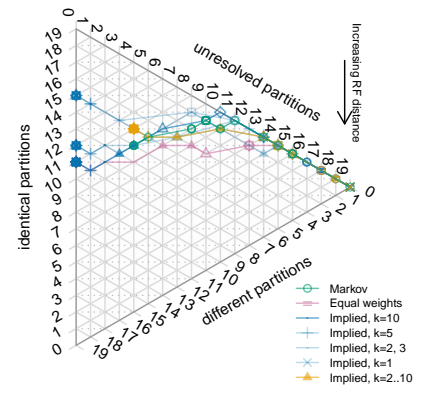
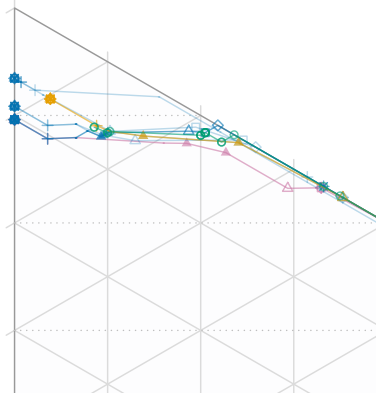




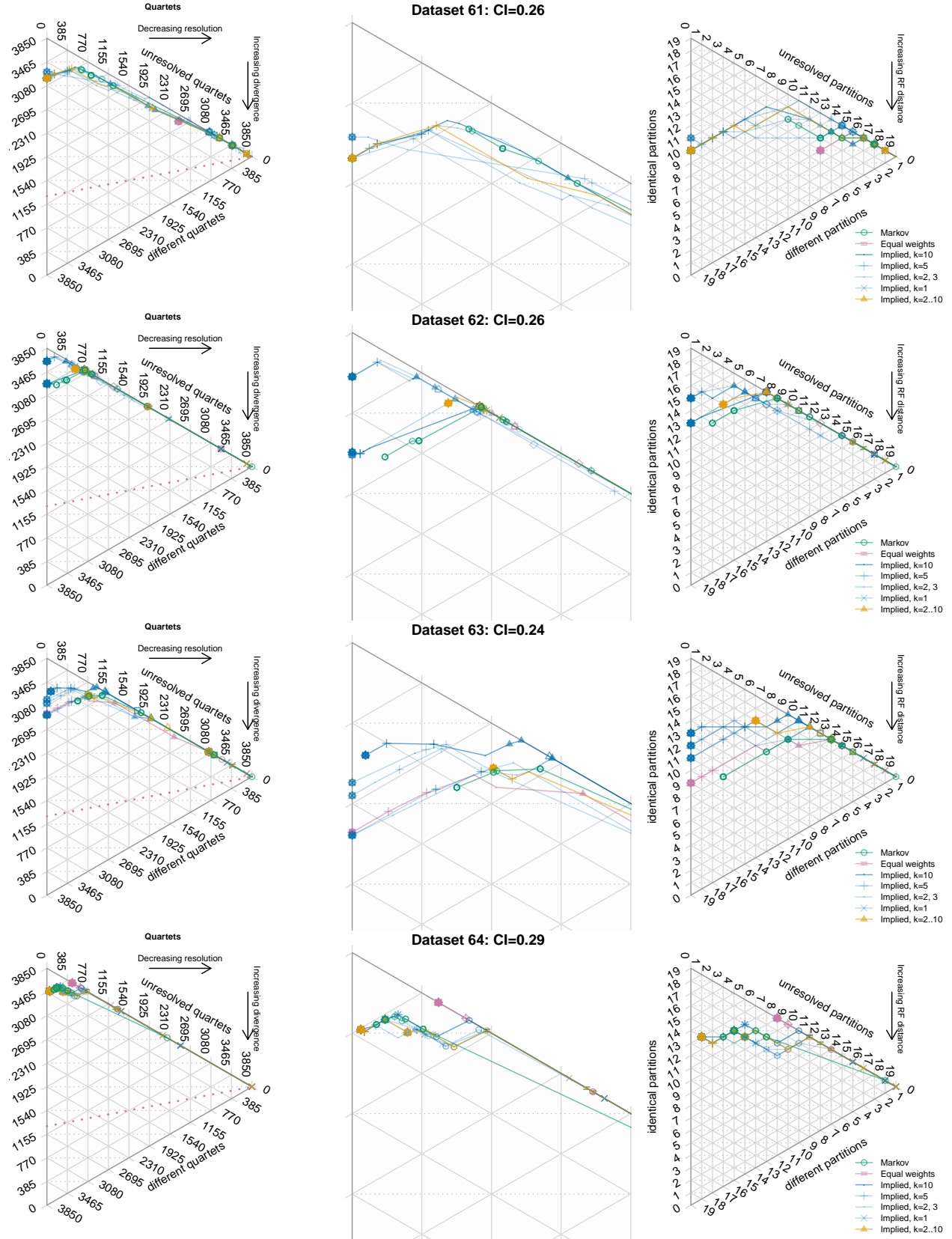
Dataset 59: CI=0.26

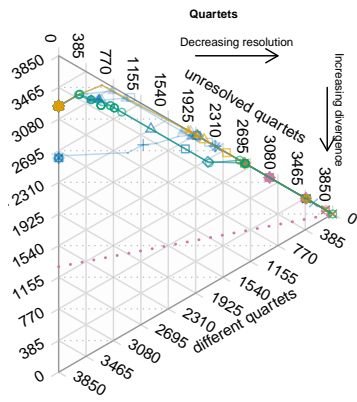


Dataset 60: CI=0.24

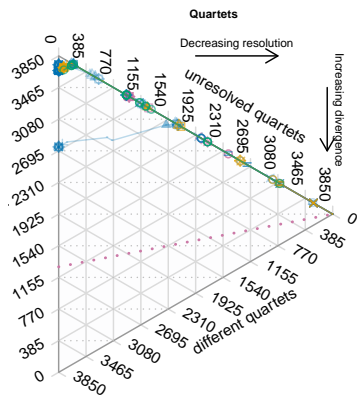
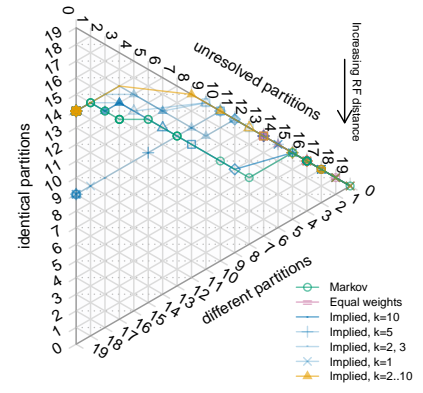
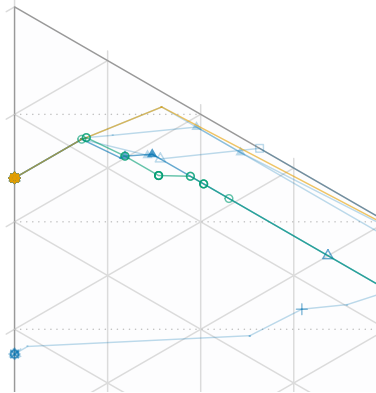


0.8 Trees 61–70

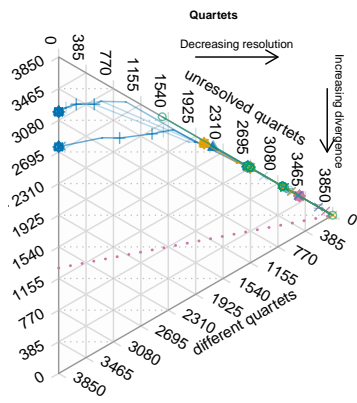
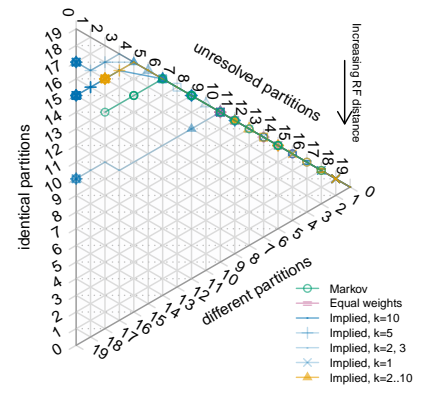
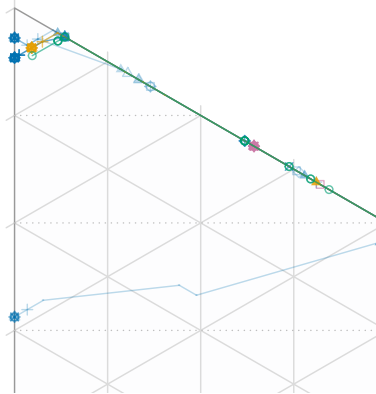




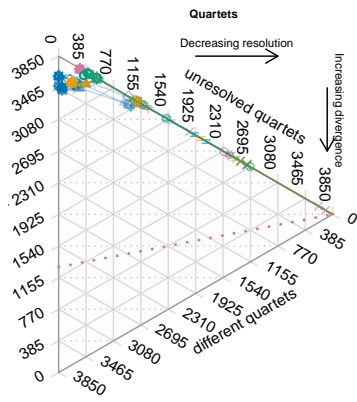
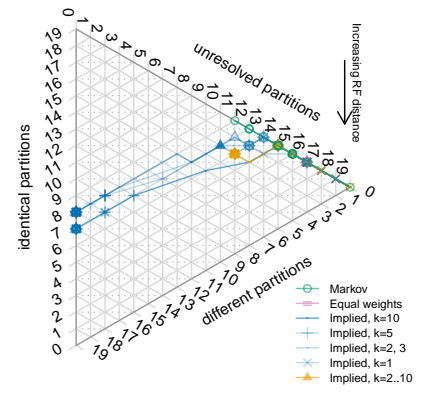
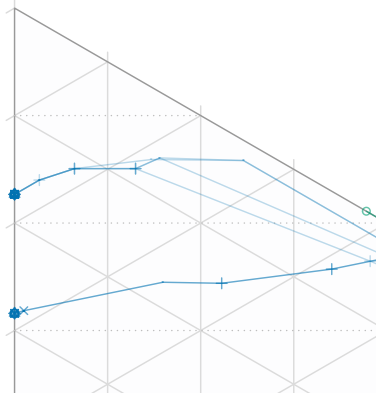
Dataset 65: CI=0.25



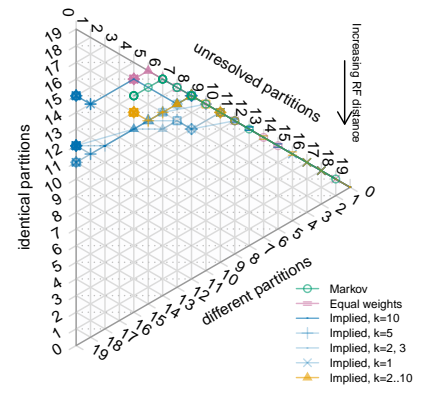
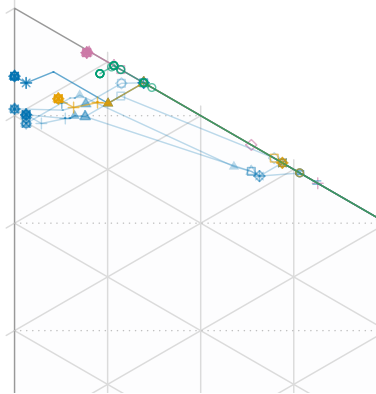
Dataset 66: CI=0.27

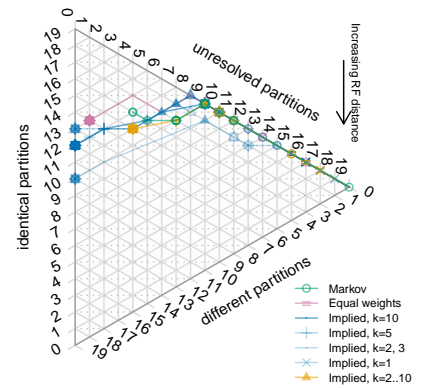
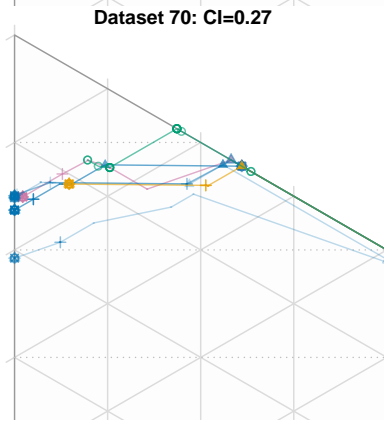
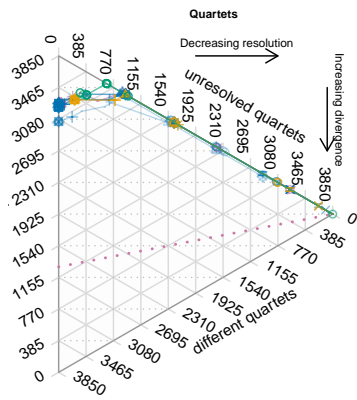
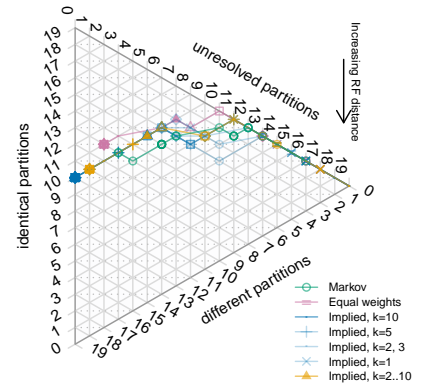
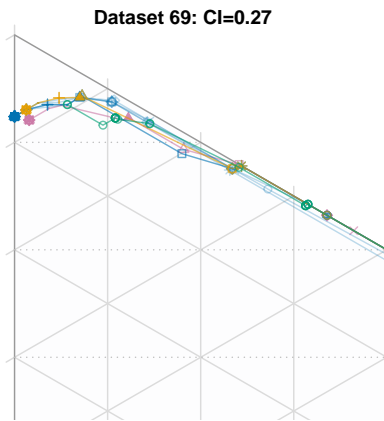
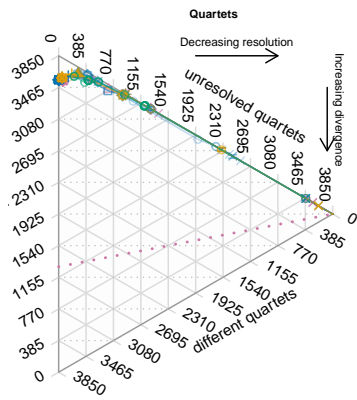


Dataset 67: CI=0.26

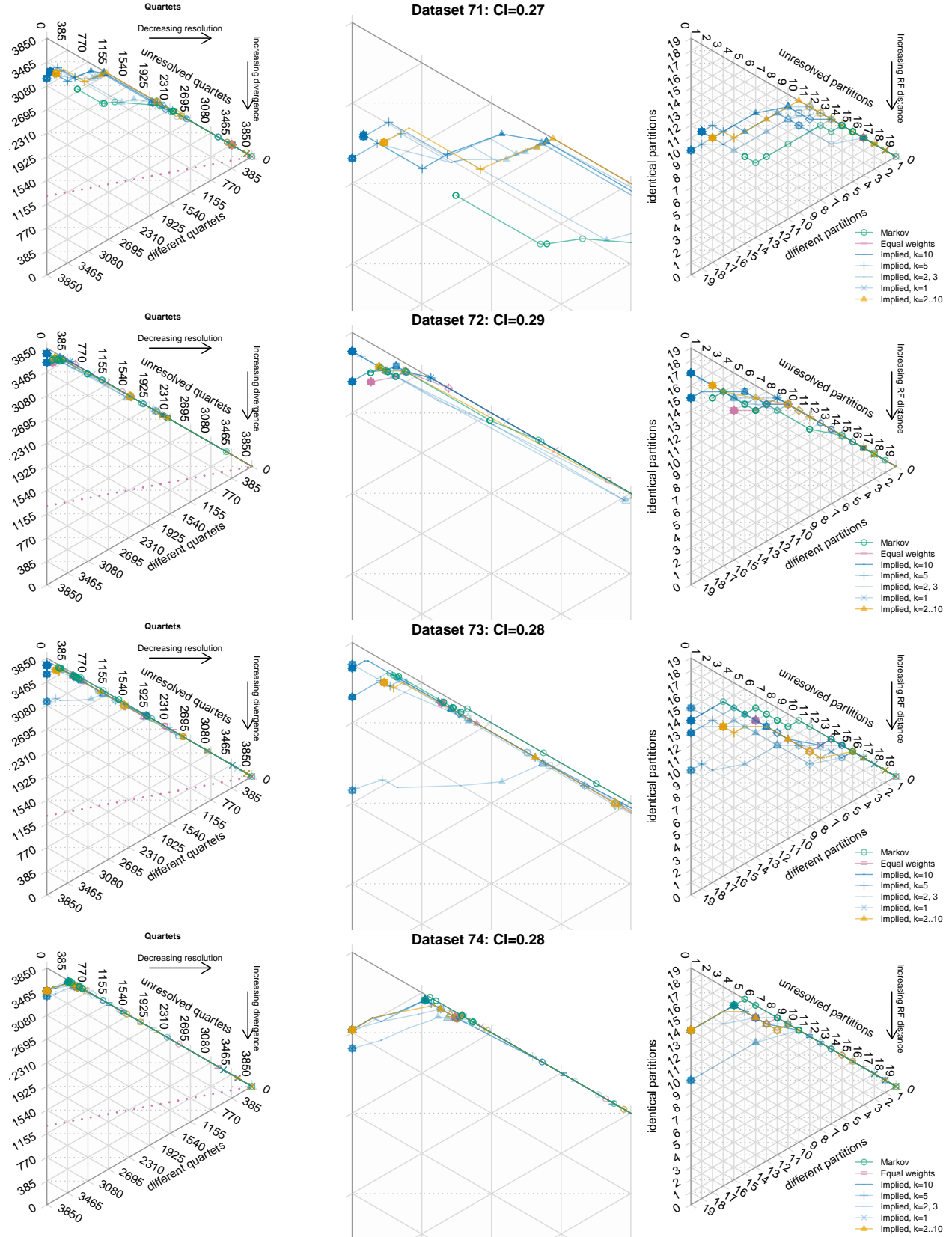


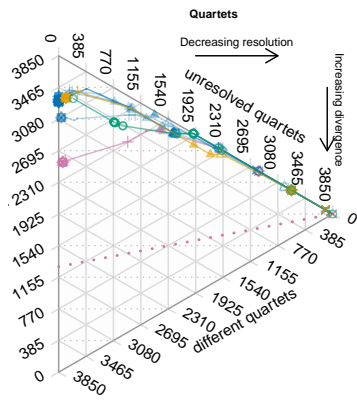
Dataset 68: CI=0.31



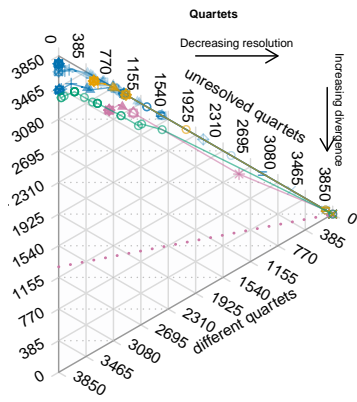
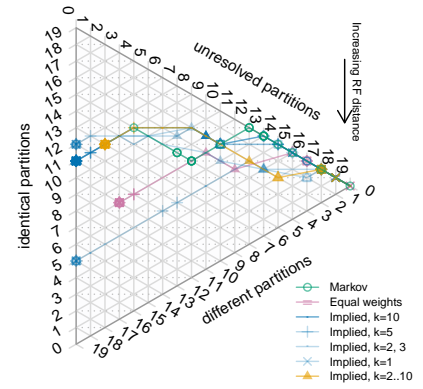


0.9 Trees 71–80

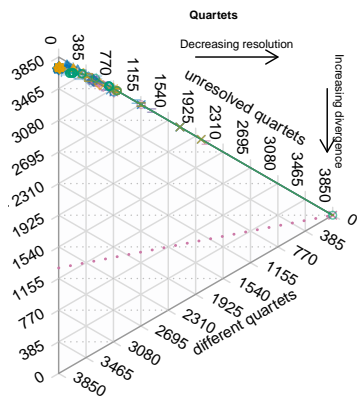
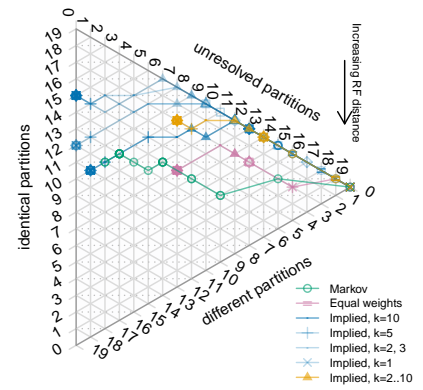




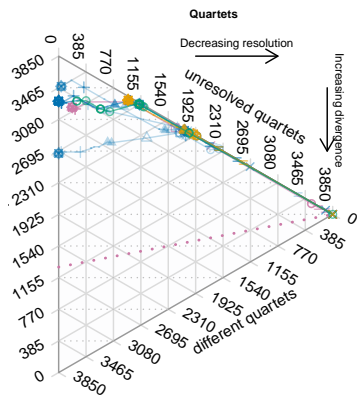
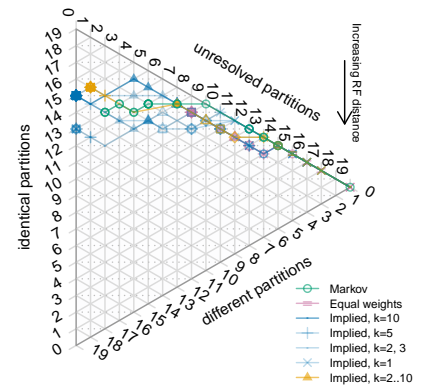
Dataset 75: CI=0.24



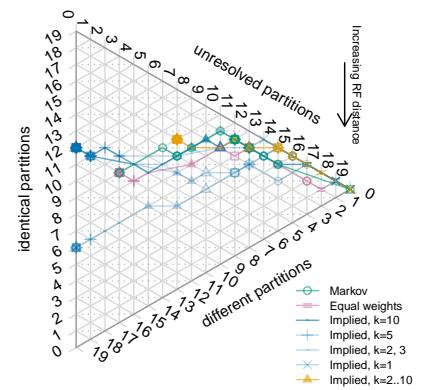
Dataset 76: CI=0.26

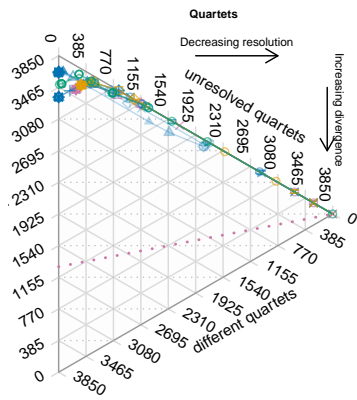


Dataset 77: CI=0.28

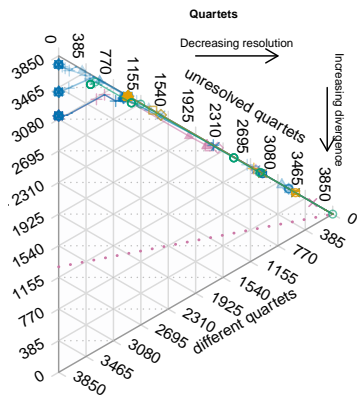
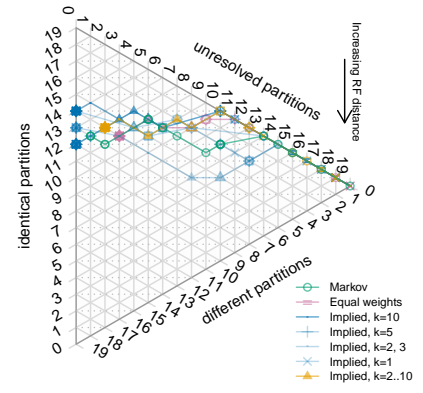
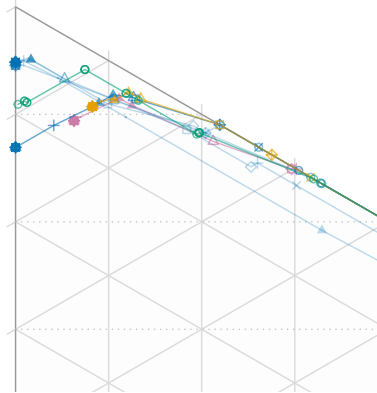


Dataset 78: CI=0.24

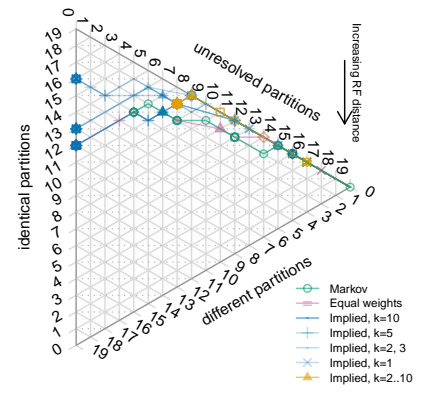
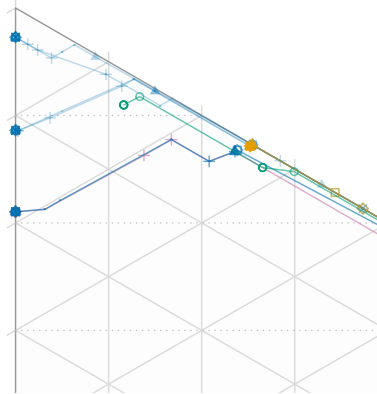




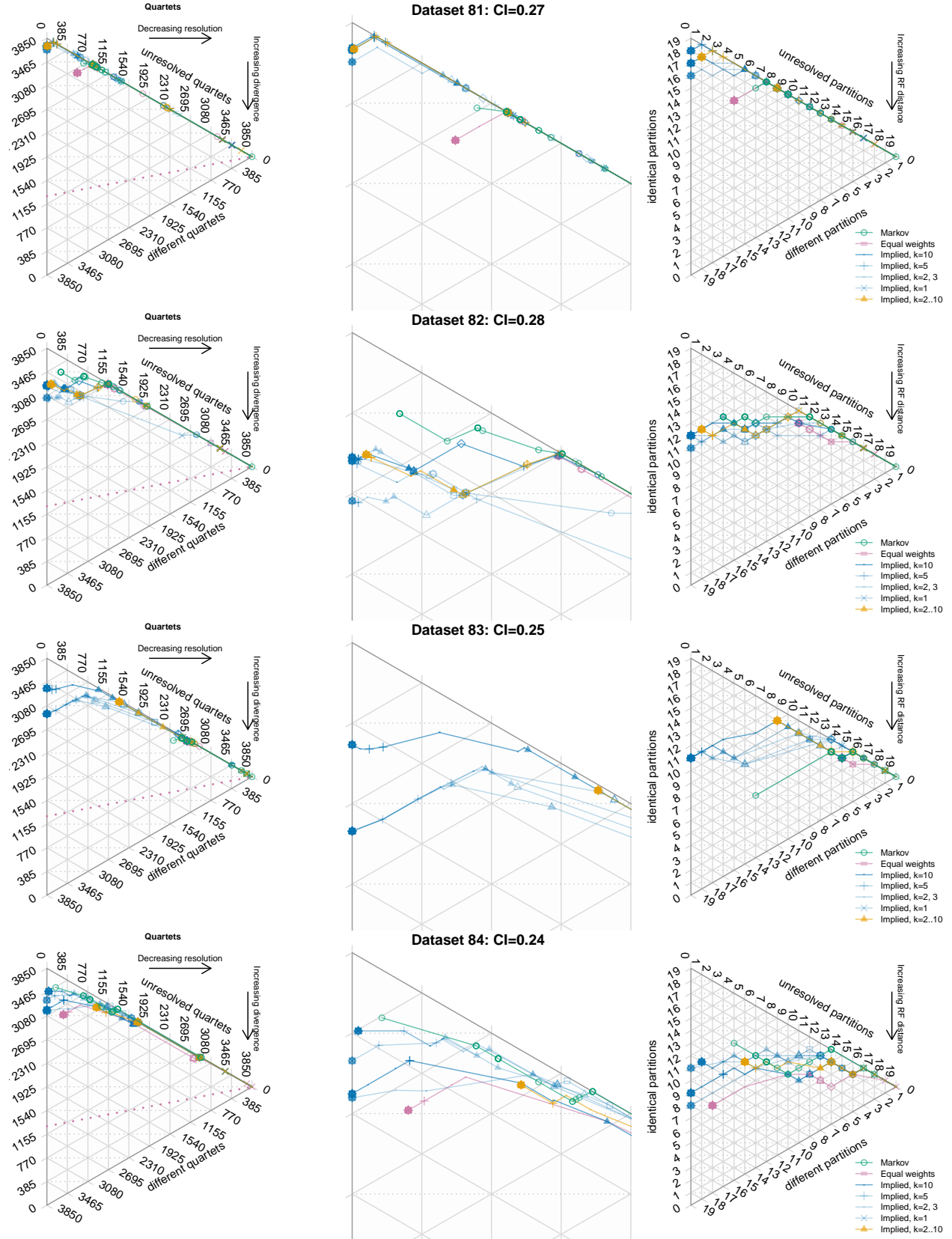
Dataset 79: CI=0.24

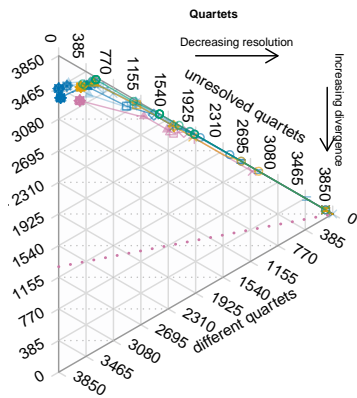


Dataset 80: CI=0.27

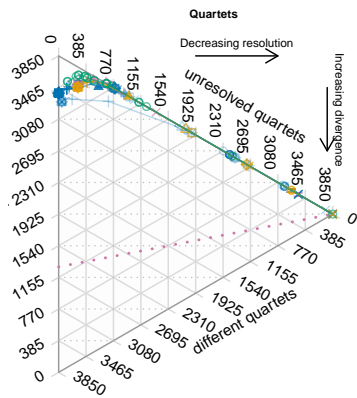
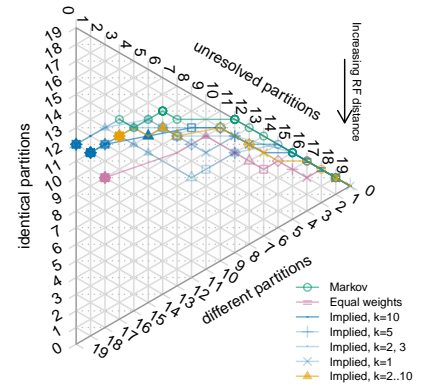


0.10 Trees 81–90

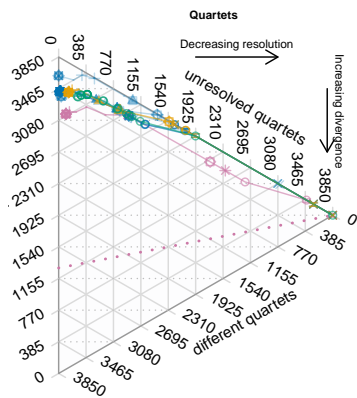
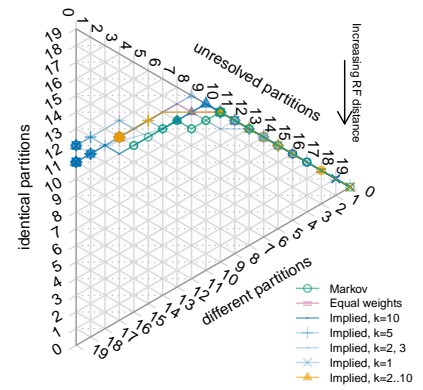




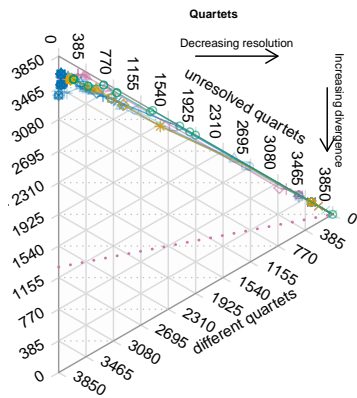
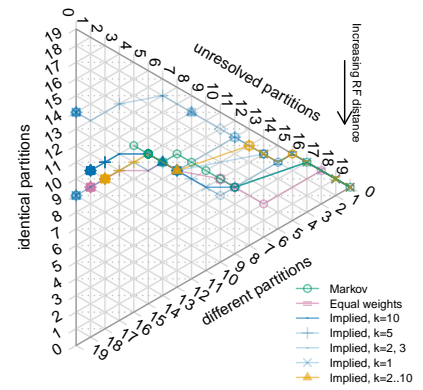
Dataset 85: CI=0.27



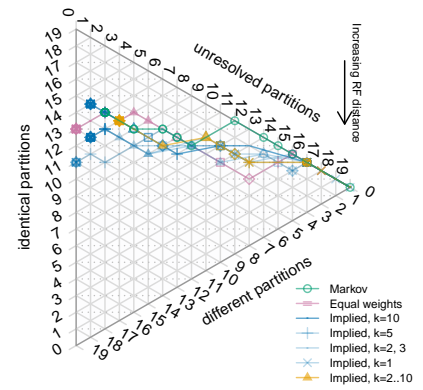
Dataset 86: CI=0.27

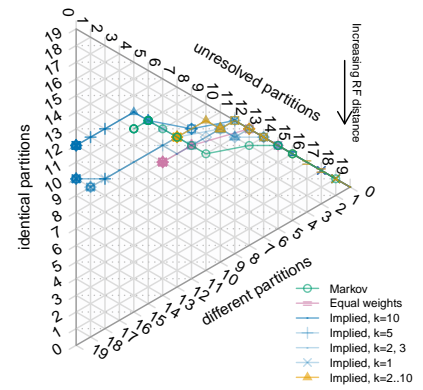
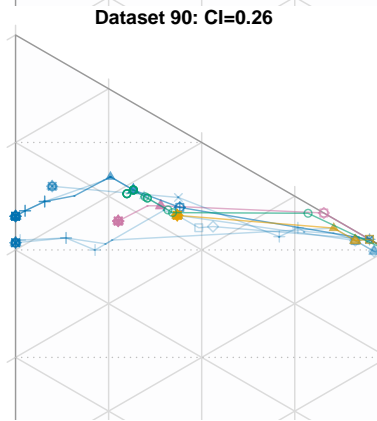
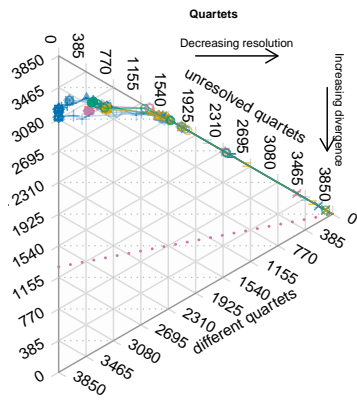
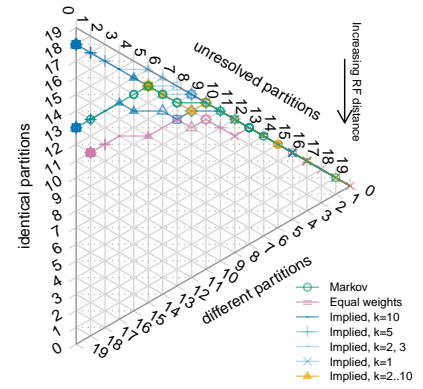
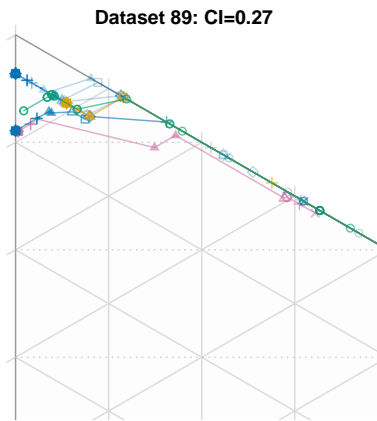
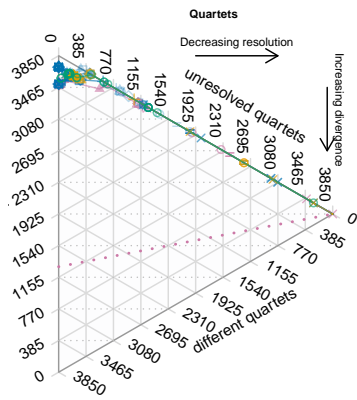


Dataset 87: CI=0.23

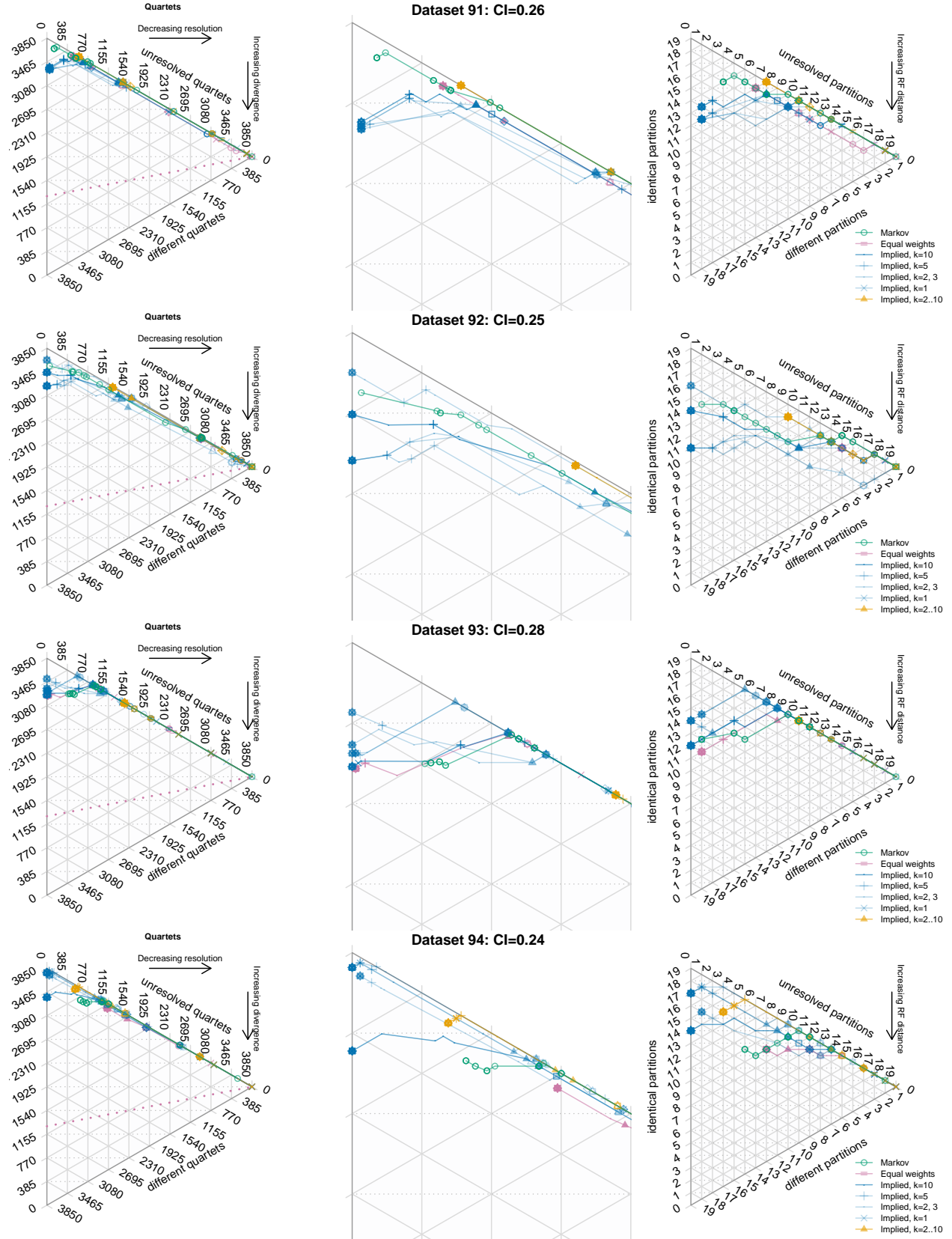


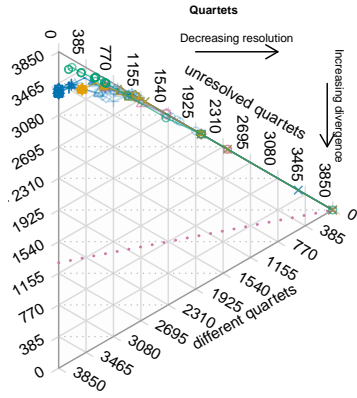
Dataset 88: CI=0.25



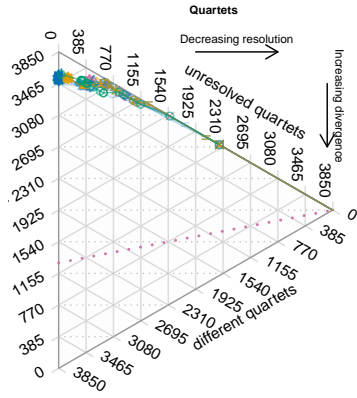
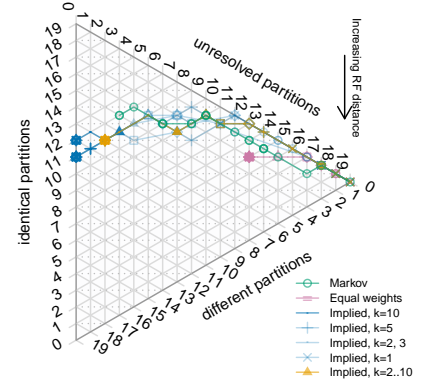


0.11 Trees 91–100

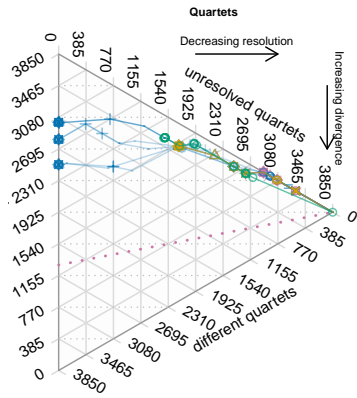
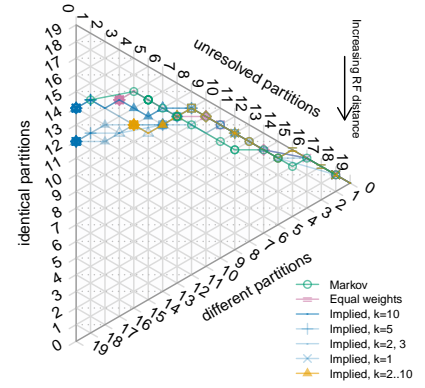




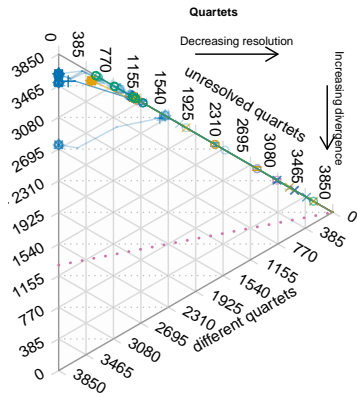
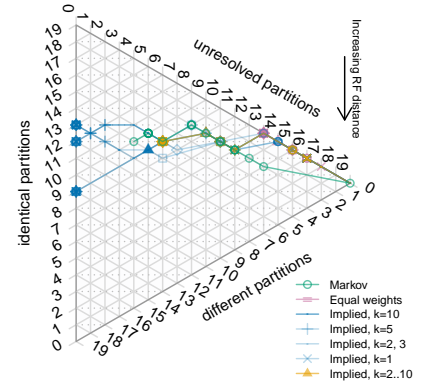
Dataset 95: CI=0.24



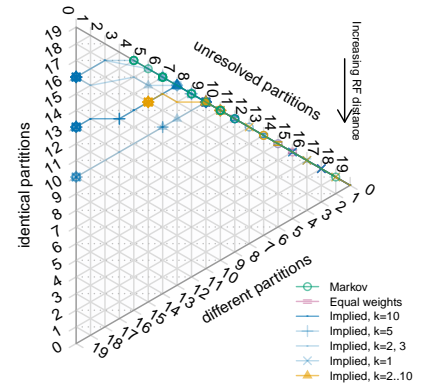
Dataset 96: CI=0.26

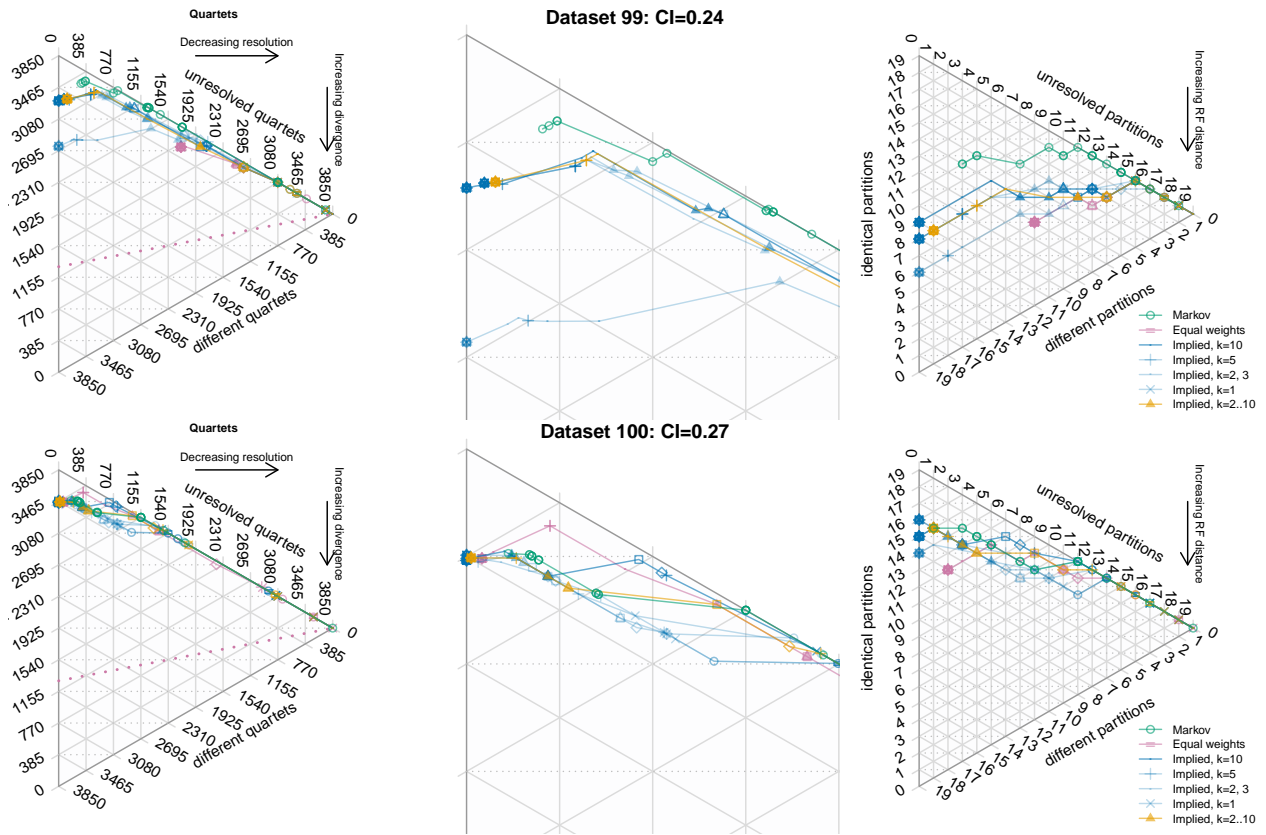


Dataset 97: CI=0.27



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)