Precision and accuracy in Congreve & Lamsdell matrices

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

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Contents

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.

```
## Warning in Sys.setlocale("LC_ALL", "English_United Kingdom.1252"): OS
## reports request to set locale to "English_United Kingdom.1252" cannot be
## honored
```

0.1 Summary

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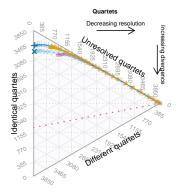
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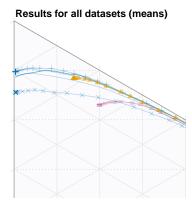
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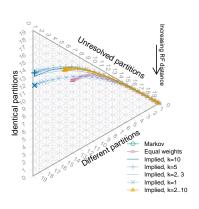
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0.2 Trees 1–10

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Dataset 3: CI=0.29

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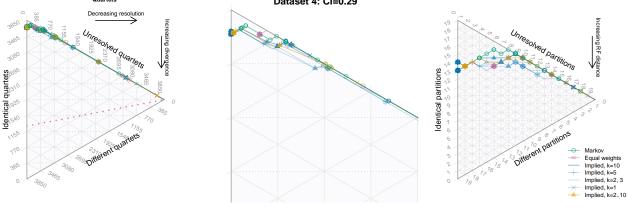
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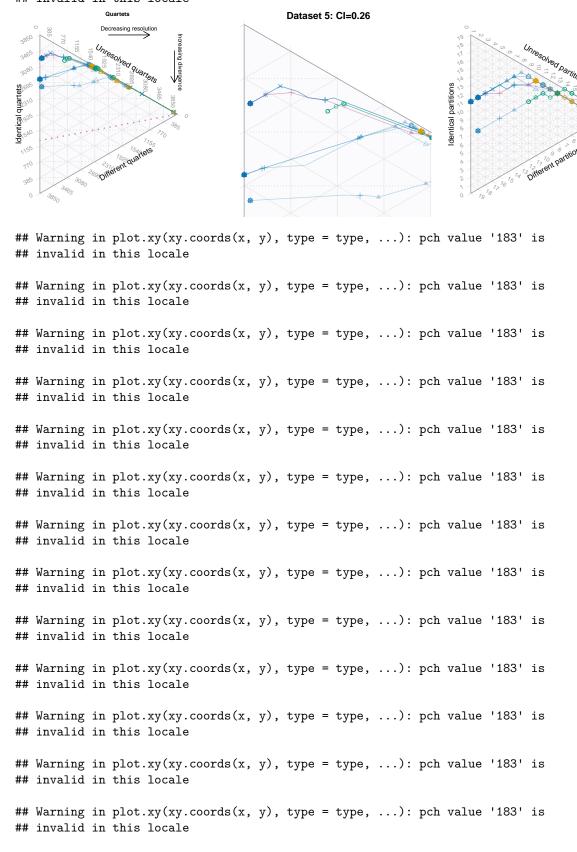
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Quartets

Dataset 5: CI=0.26

Legend:
- Markov
- Equal weights
- Implied, k=10
- Implied, k=5
- Implied, k=2, 3
- Implied, k=1
- Implied, k=2..10

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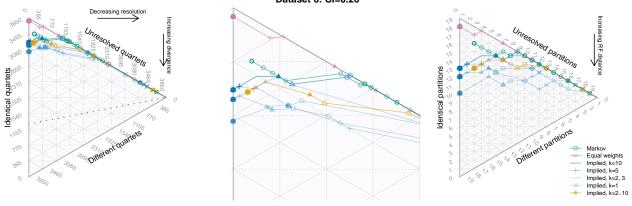
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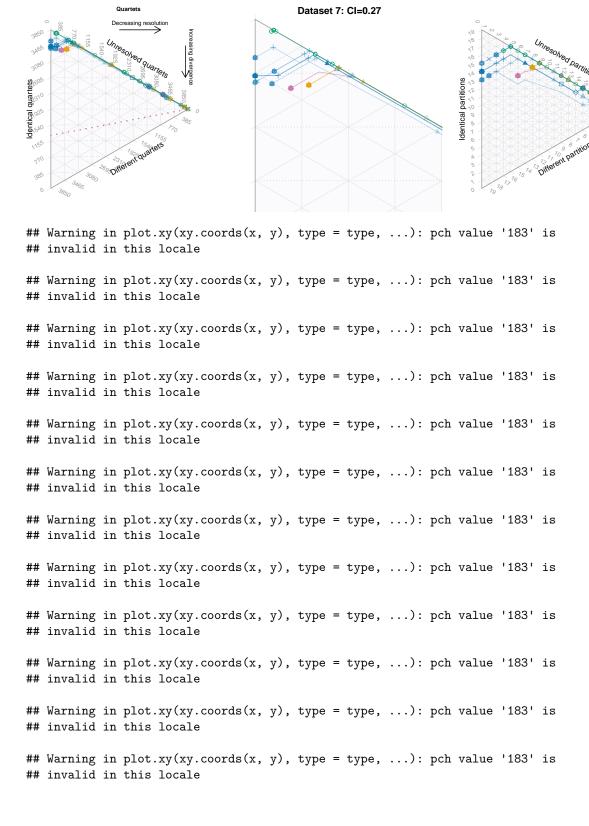
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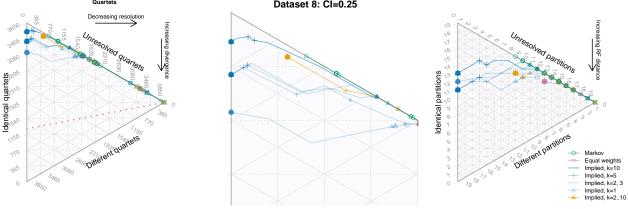
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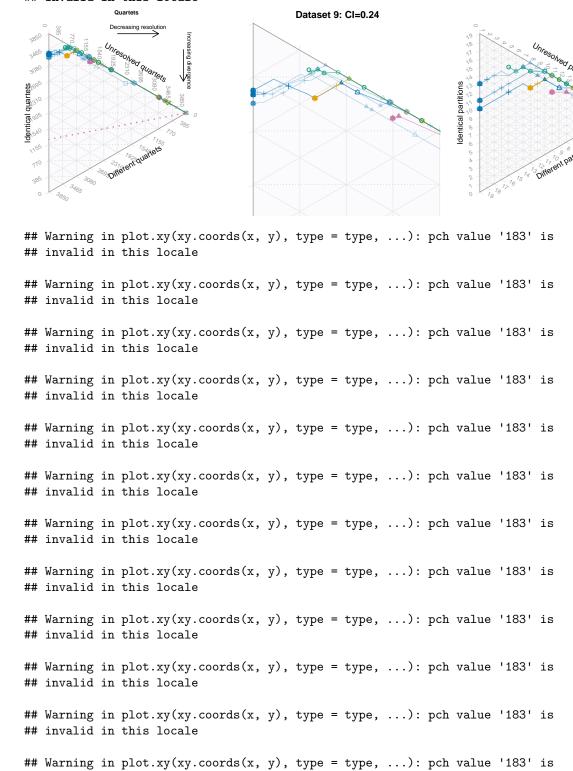
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Dataset 10: CI=0.29

0.3   Trees 11–20

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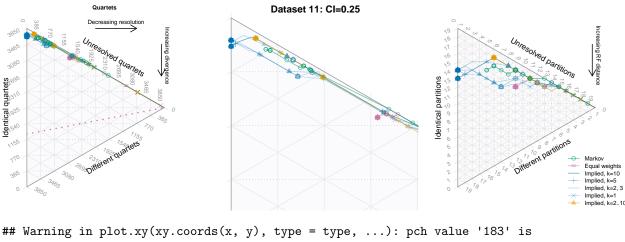
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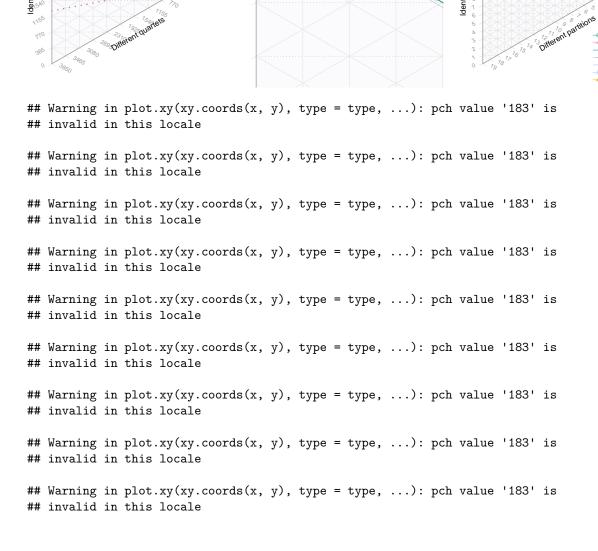
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Dataset 14: CI=0.25

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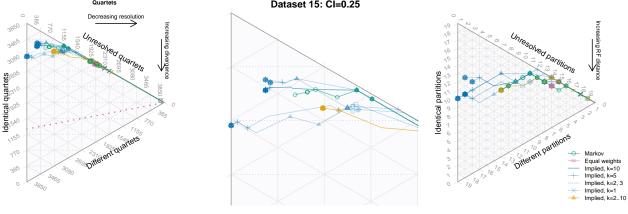
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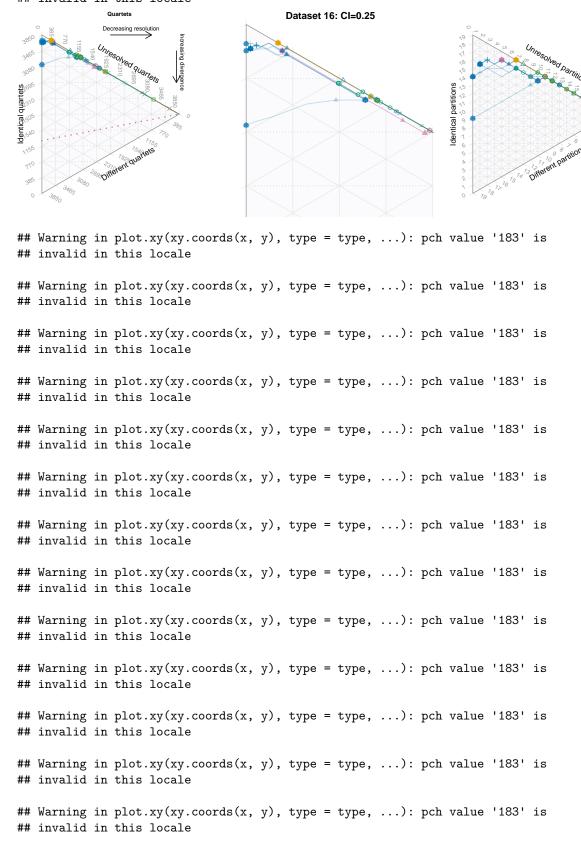
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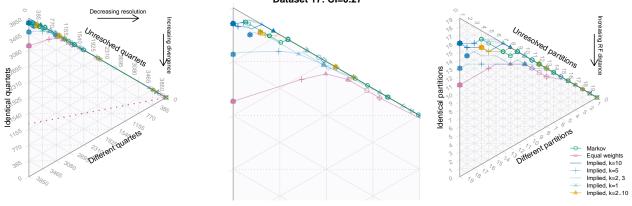
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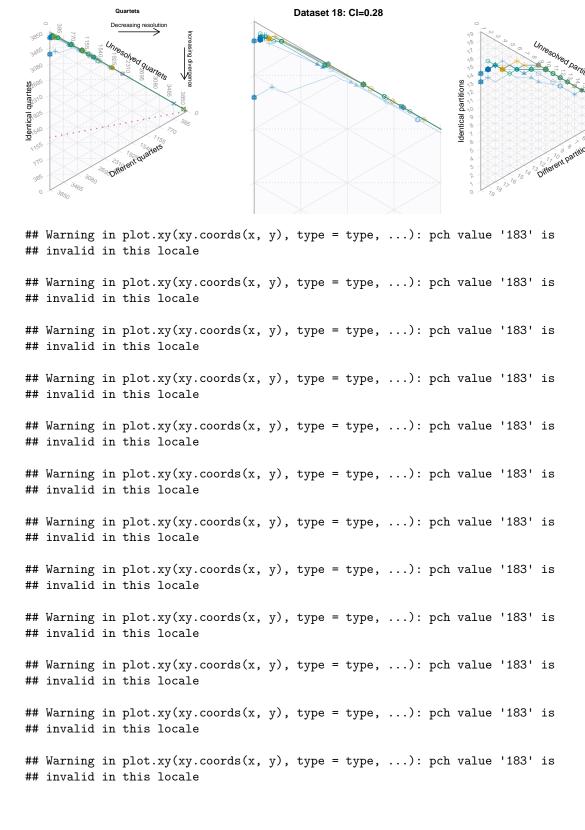
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Quartets

Dataset 18: CI=0.28

Markov
Equal weights
Implied, k=10
Implied, k=5
Implied, k=2, 3
Implied, k=1
Implied, k=2..10

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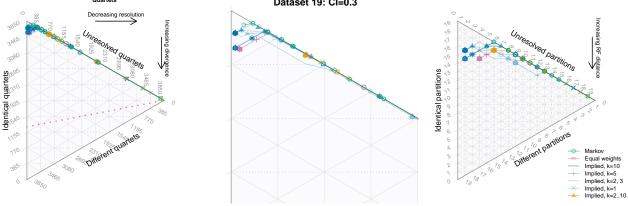
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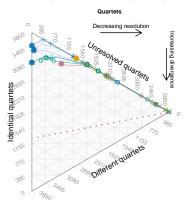
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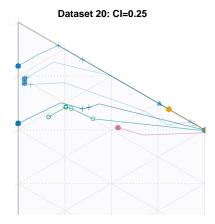
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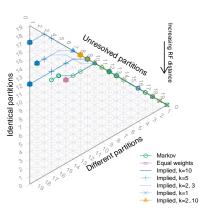
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0.4 Trees 21–30

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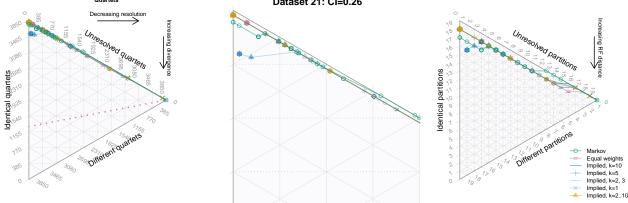
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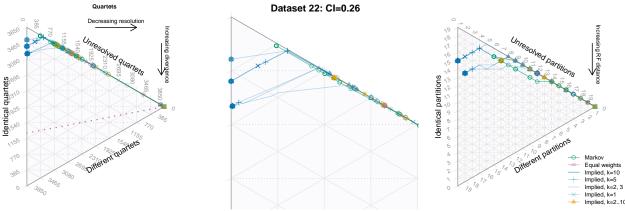
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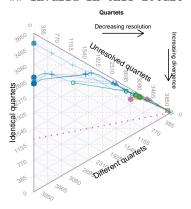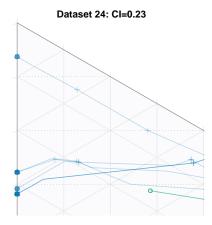
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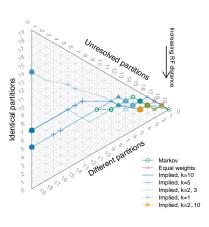
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Quartets   **Dataset 25: CI=0.28**

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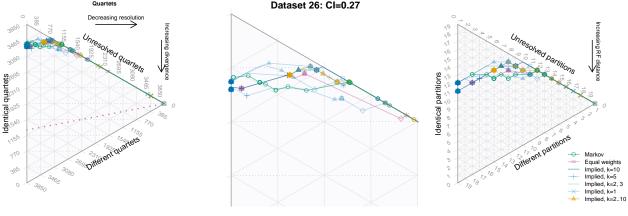
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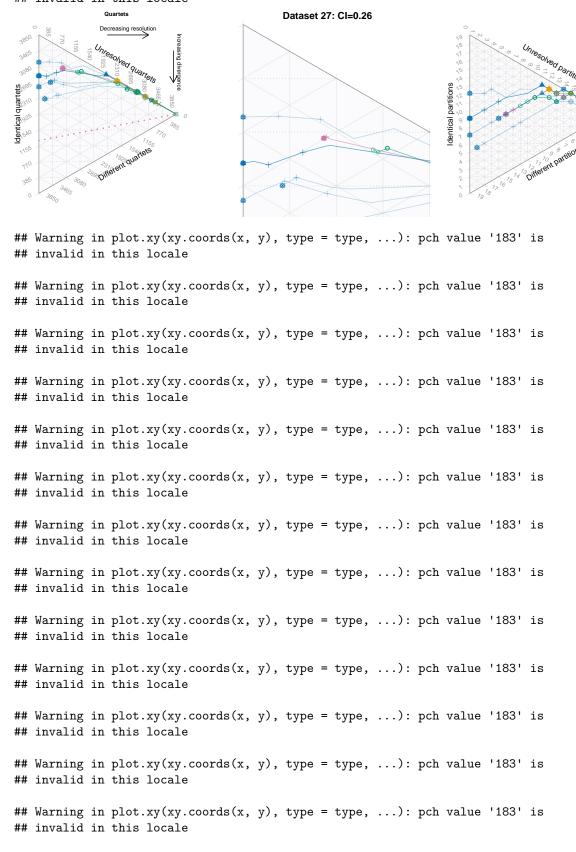
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Dataset 27: CI=0.26

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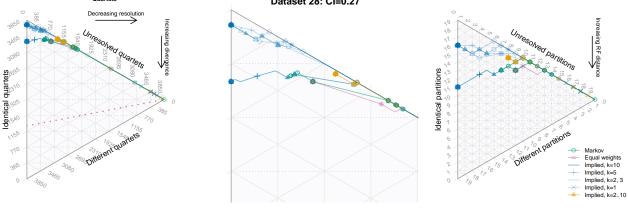
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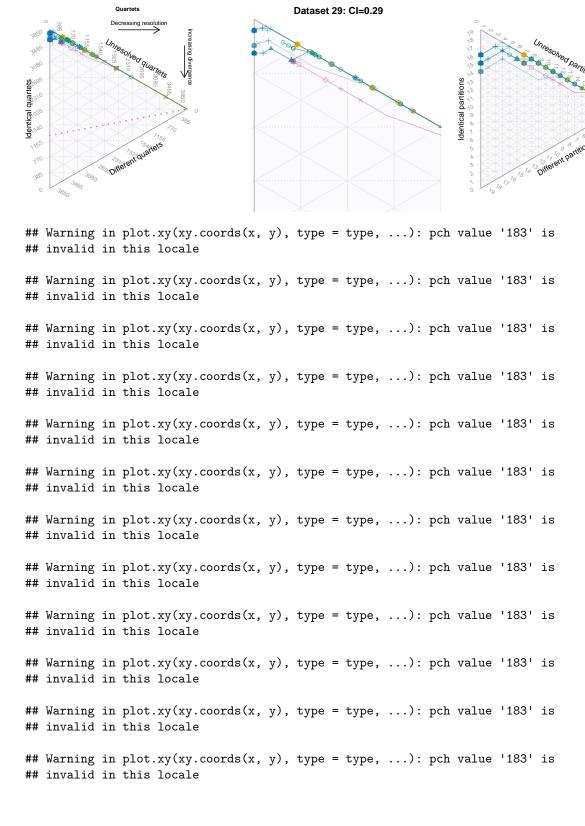
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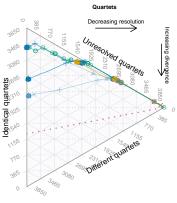
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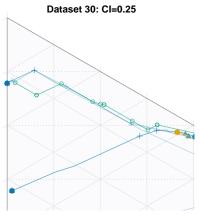
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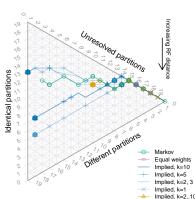
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0.5 Trees 31–40

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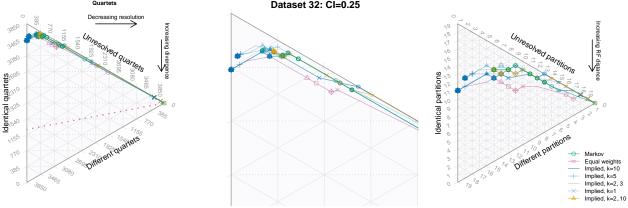
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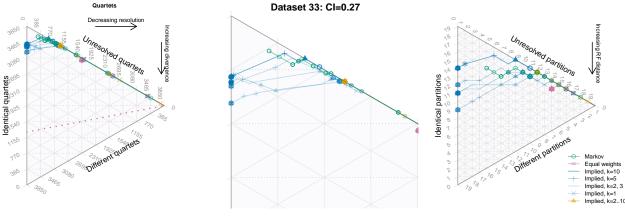
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Dataset 34: CI=0.29

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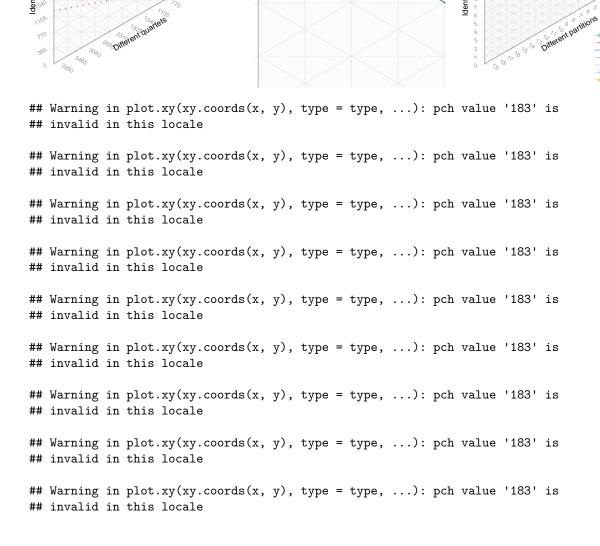
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Quartets

Dataset 36: CI=0.24

Decreasing resolution

Increasing divergence

Unresolved quartets

Identical quartets

Different quartets

Increasing RF distance

Unresolved partitions

Identical partitions

Different partitions

Markov
Equal weights
Implied, k=10
Implied, k=5
Implied, k=2, 3
Implied, k=1
Implied, k=2..10

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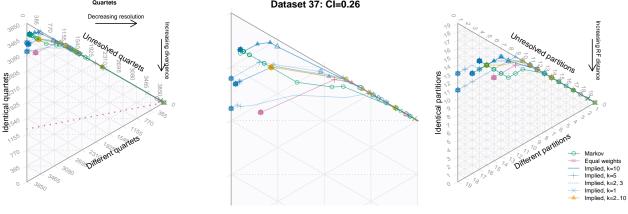
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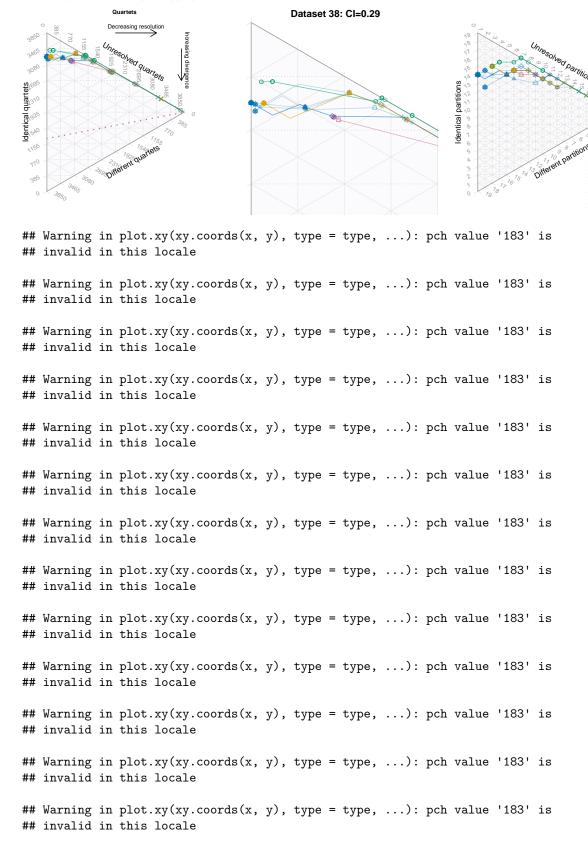
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Dataset 38: CI=0.29

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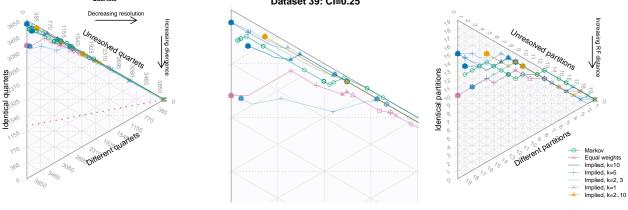
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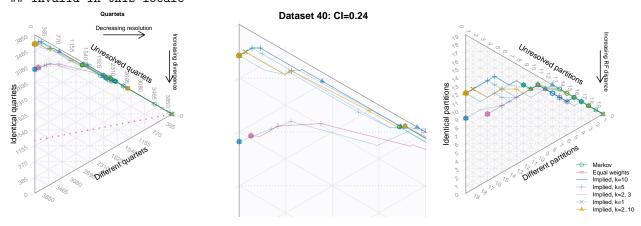
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Quartets

Dataset 40: CI=0.24

0.6   Trees 41–50

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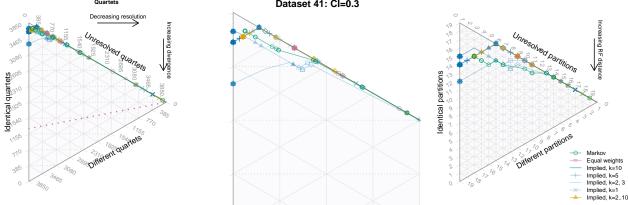
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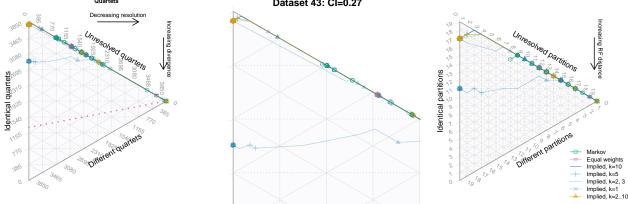
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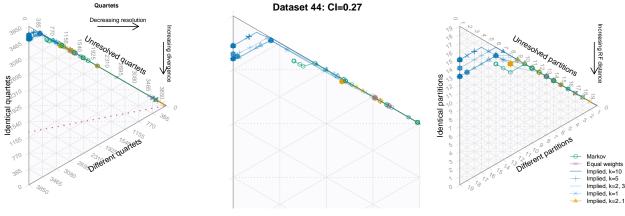
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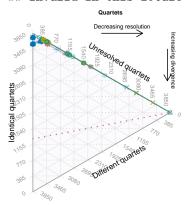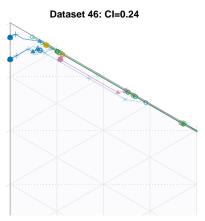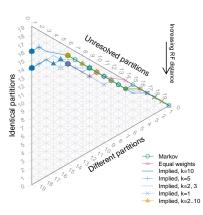
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Quartets

Decreasing resolution →

Increasing divergence

Unresolved quartets

Identical quartets

Different quartets

Dataset 47: CI=0.29

Increasing RF distance

Unresolved partitions

Identical partitions

Different partitions

- ○ Markov
- Equal weights
- Implied, k=10
- Implied, k=5
- Implied, k=2, 3
- × Implied, k=1
- ▲ Implied, k=2..10

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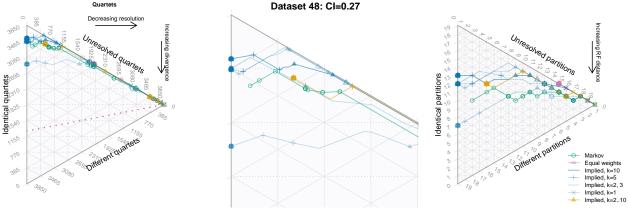
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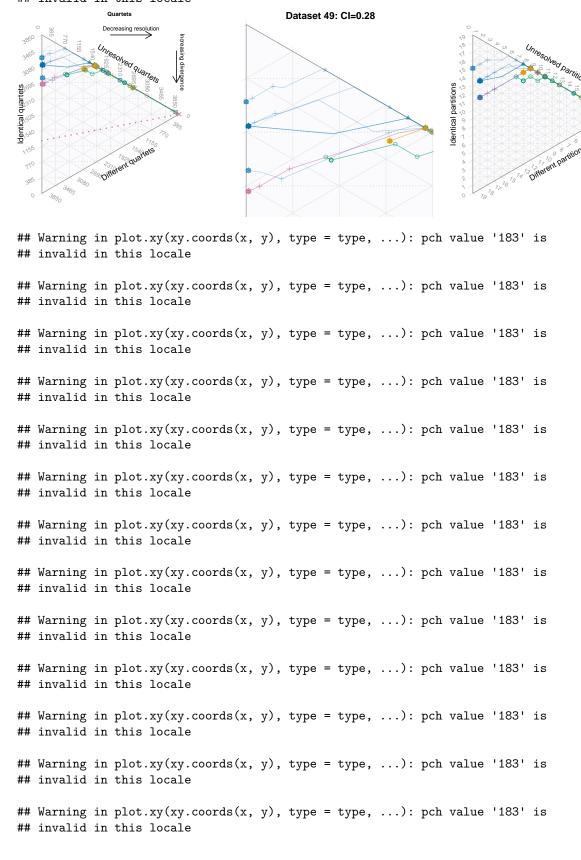
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Dataset 49: CI=0.28

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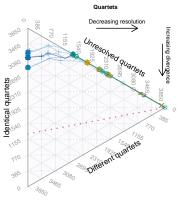
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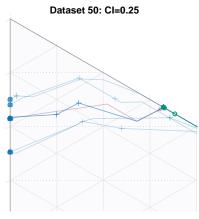
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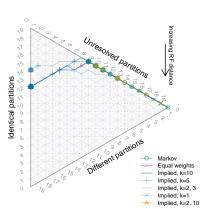
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Dataset 50: CI=0.25

0.7   Trees 51–60

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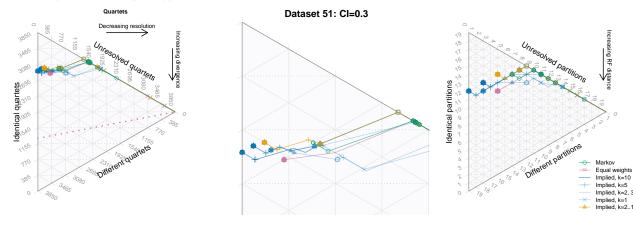
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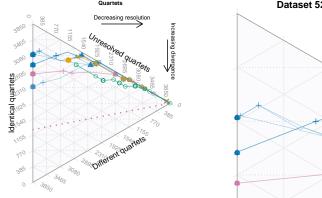
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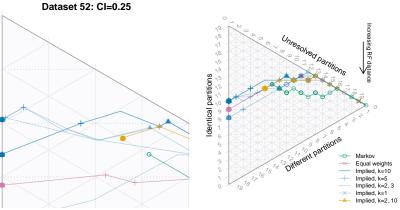
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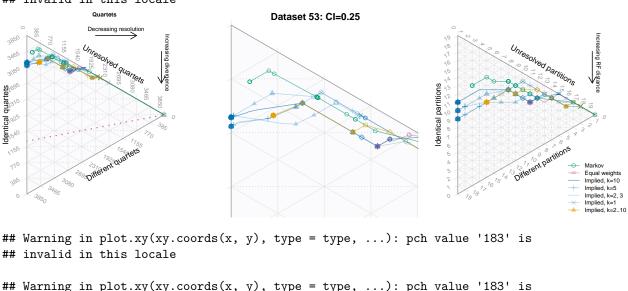
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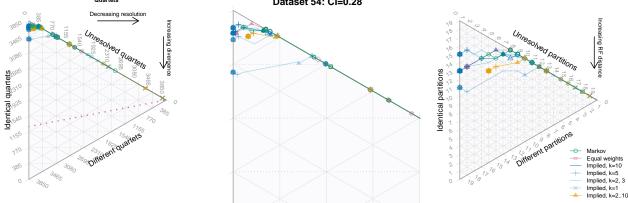
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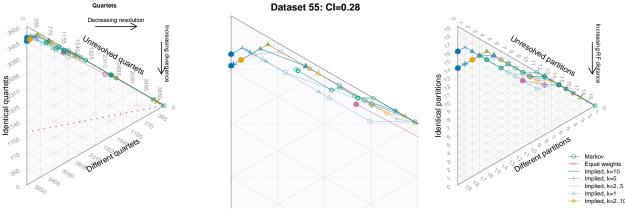
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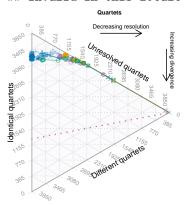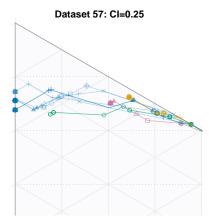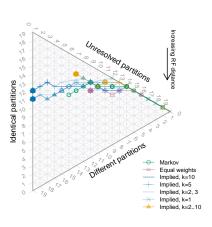
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Dataset 58: CI=0.25

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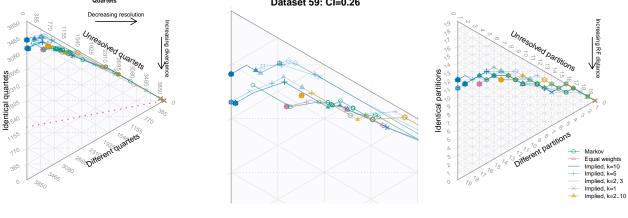
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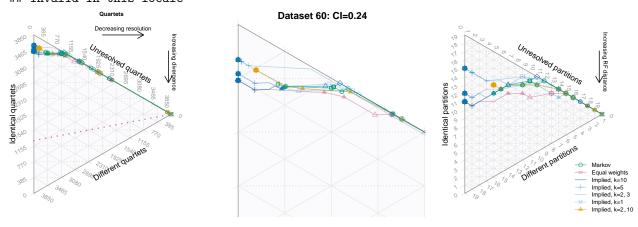
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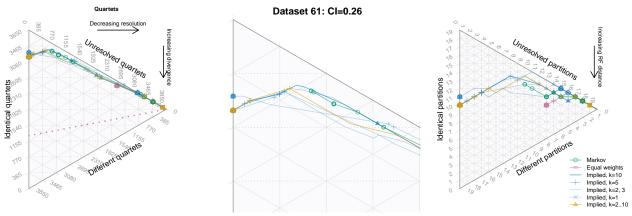
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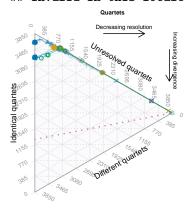
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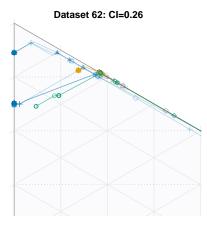
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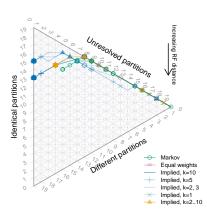
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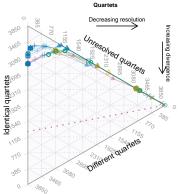
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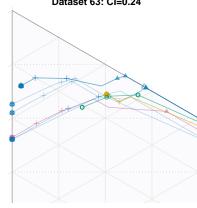
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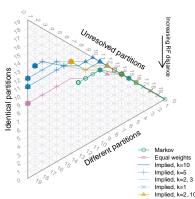
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Dataset 64: CI=0.29

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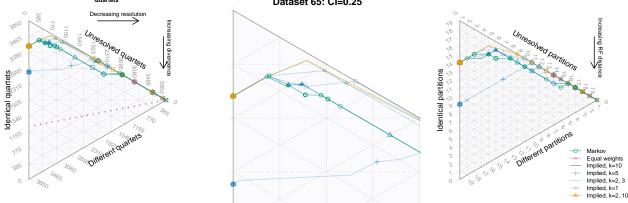
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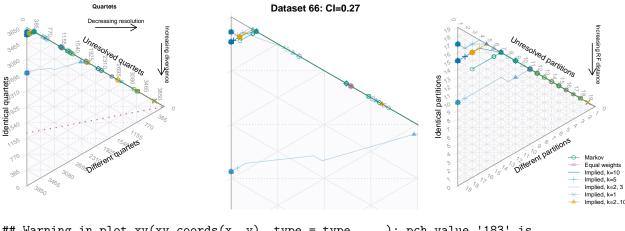
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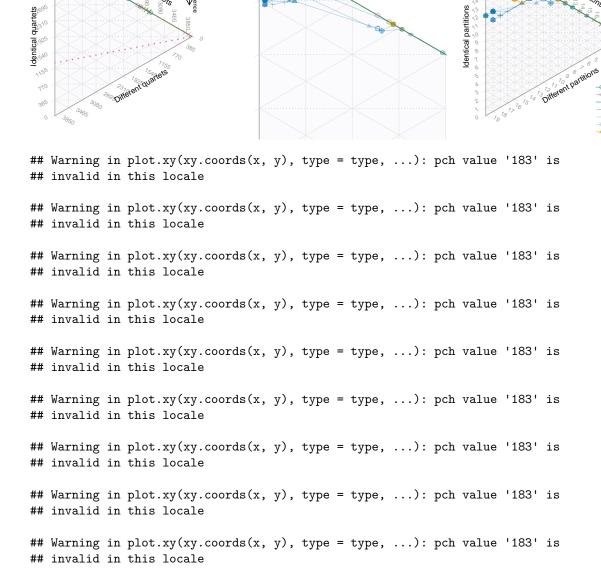
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Quartets

Decreasing resolution

Increasing divergence

Unresolved quartets

Identical quartets

Different quartets

Dataset 69: CI=0.27

Increasing RF distance

Unresolved partitions

Identical partitions

Different partitions

- Markov
- Equal weights
- Implied, k=10
- Implied, k=5
- Implied, k=2, 3
- Implied, k=1
- Implied, k=2..10

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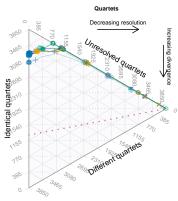
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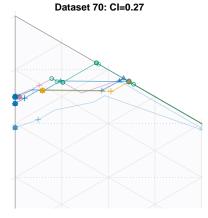
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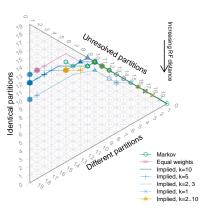
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0.9 Trees 71–80

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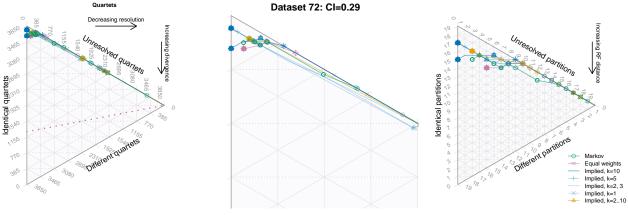
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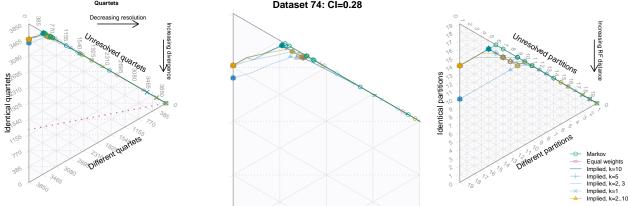
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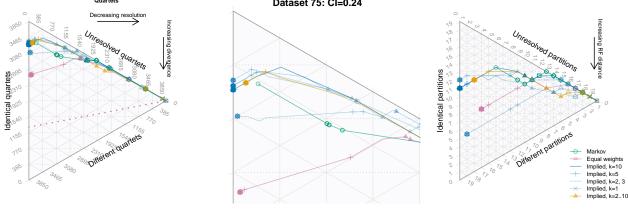
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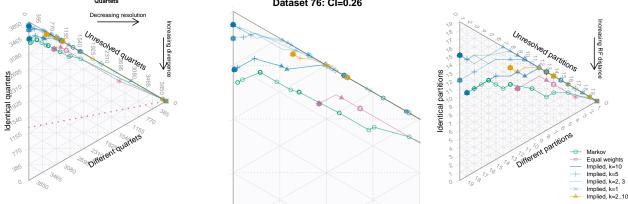
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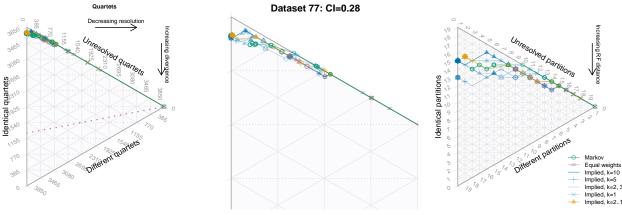
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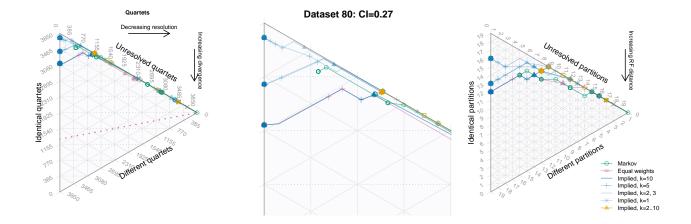
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Quartets

Decreasing resolution →

Increasing divergence ↓

Unresolved quartets

Identical quartets

Different quartets

Dataset 80: CI=0.27

Increasing RF distance ↓

Unresolved partitions

Identical partitions

Different partitions

Markov
Equal weights
Implied, k=10
Implied, k=5
Implied, k=2, 3
Implied, k=1
Implied, k=2..10

0.10 Trees 81−90

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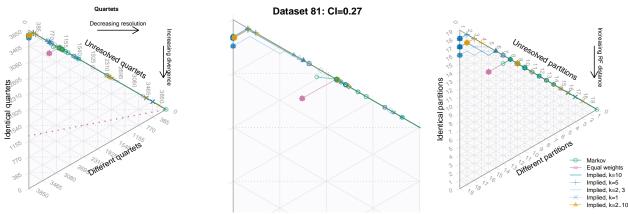
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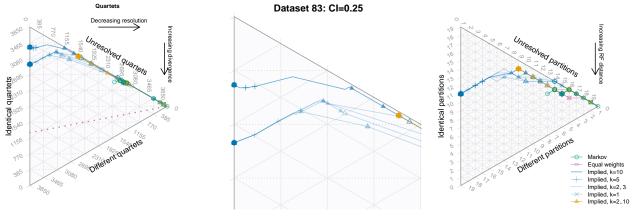
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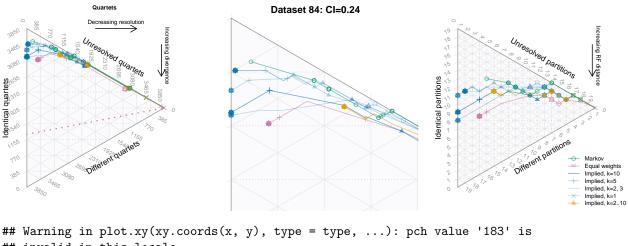
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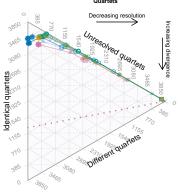
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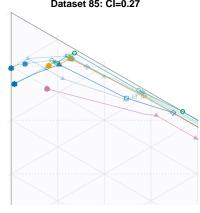
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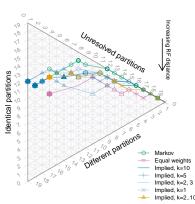
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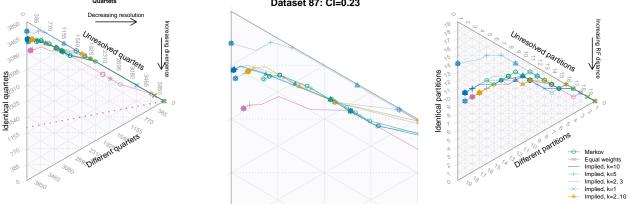
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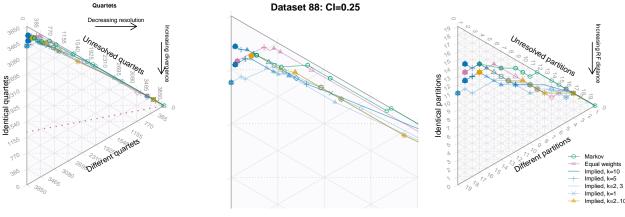
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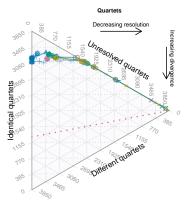
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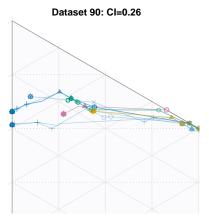
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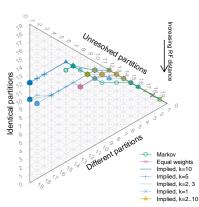
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Quartets

Dataset 91: CI=0.26

Decreasing resolution

Increasing divergence

Unresolved quartets

Identical quartets

Different quartets

Increasing RF distance

Unresolved partitions

Identical partitions

Different partitions

- Markov
- Equal weights
- Implied, k=10
- Implied, k=5
- Implied, k=2, 3
- Implied, k=1
- Implied, k=2..10

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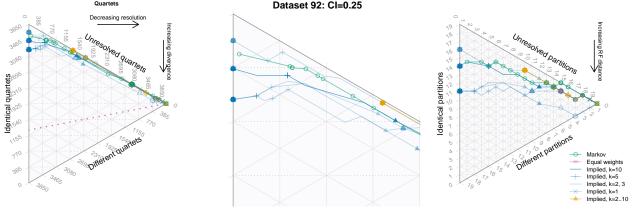
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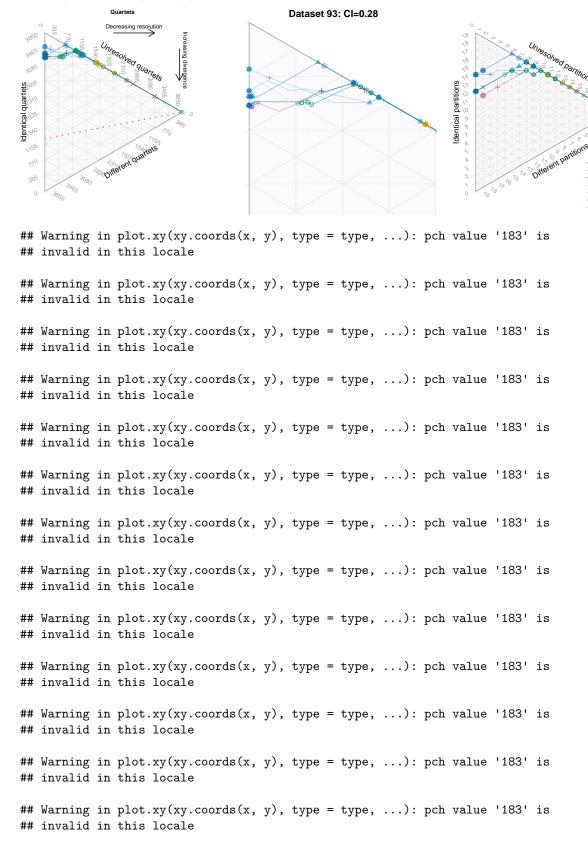
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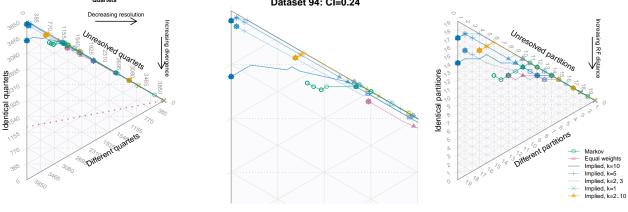
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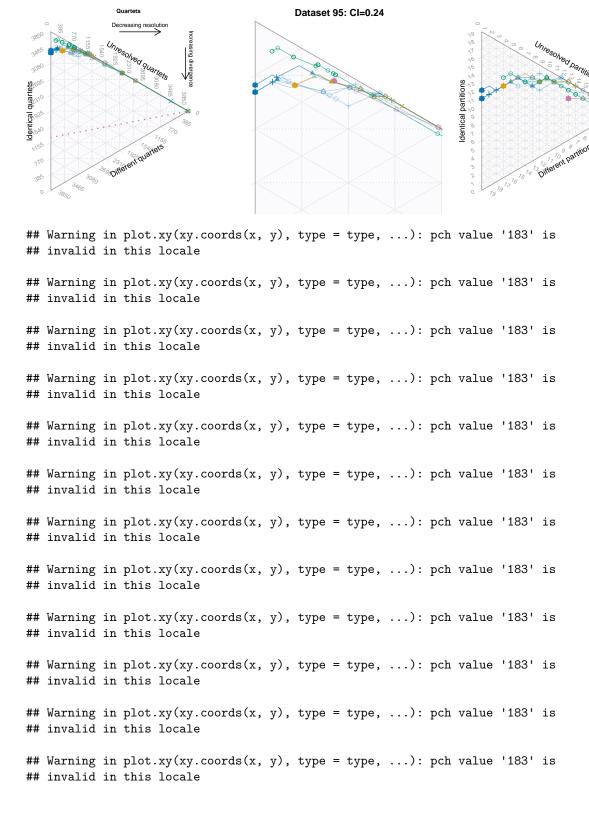
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Dataset 95: CI=0.24

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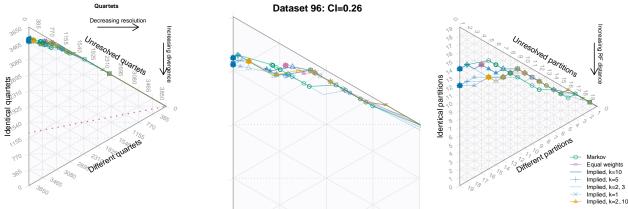
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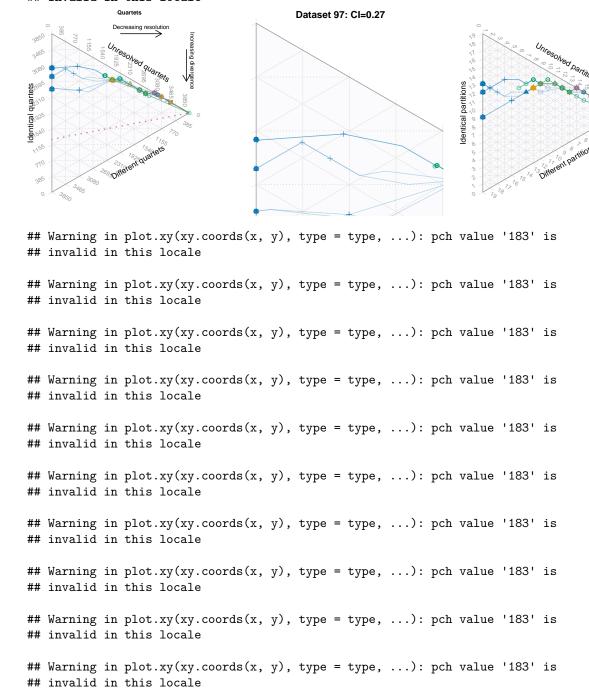
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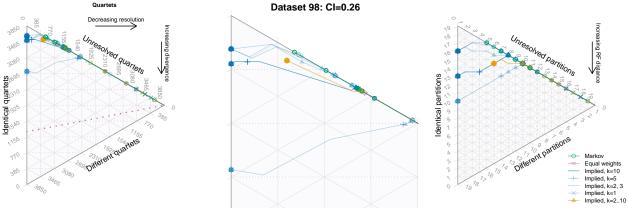
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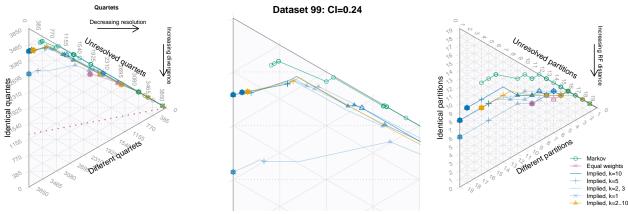
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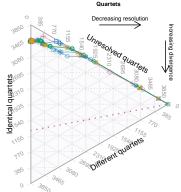
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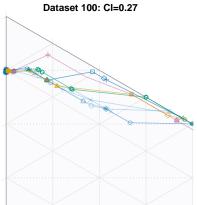
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```
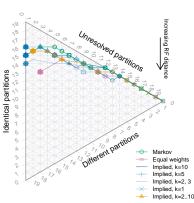
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References

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)