Resolution and accuracy in Congreve & Lamsdell matrices

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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.

0.1 Summary

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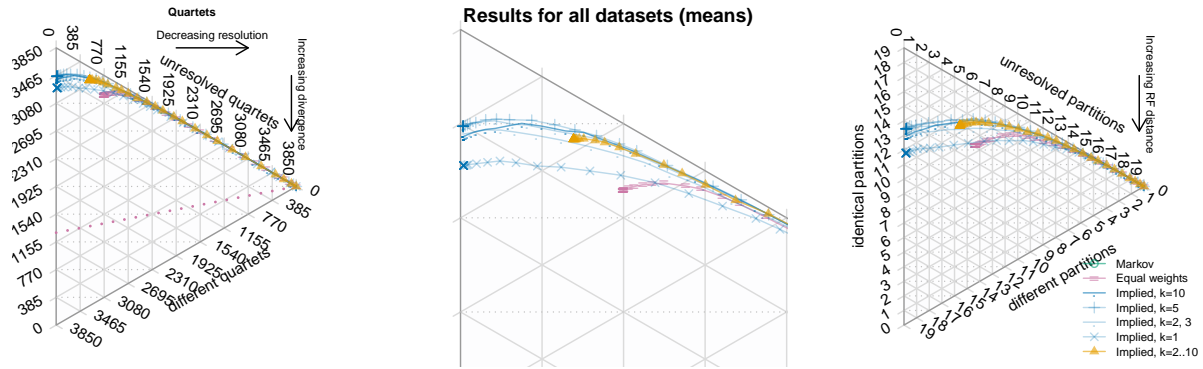
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0.2   Trees 1–10

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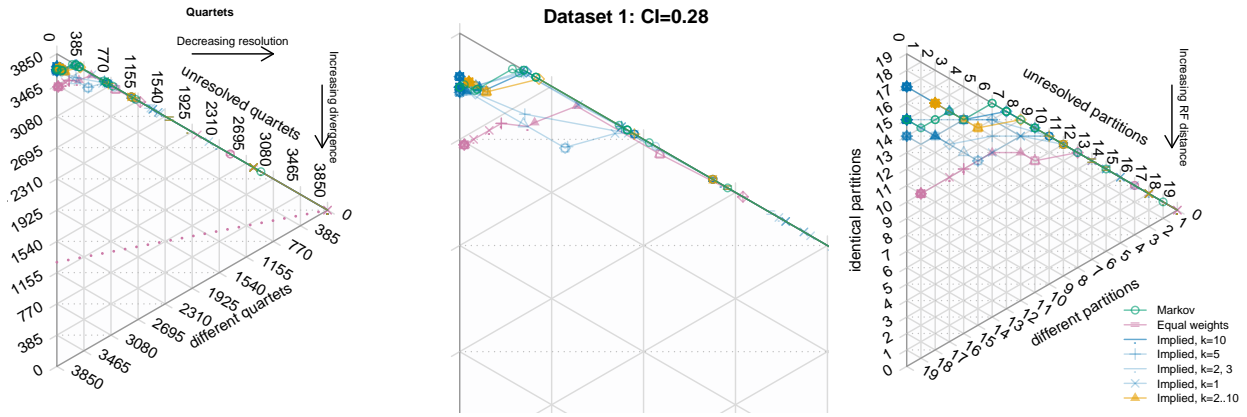
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Quartets   **Dataset 1: CI=0.28**

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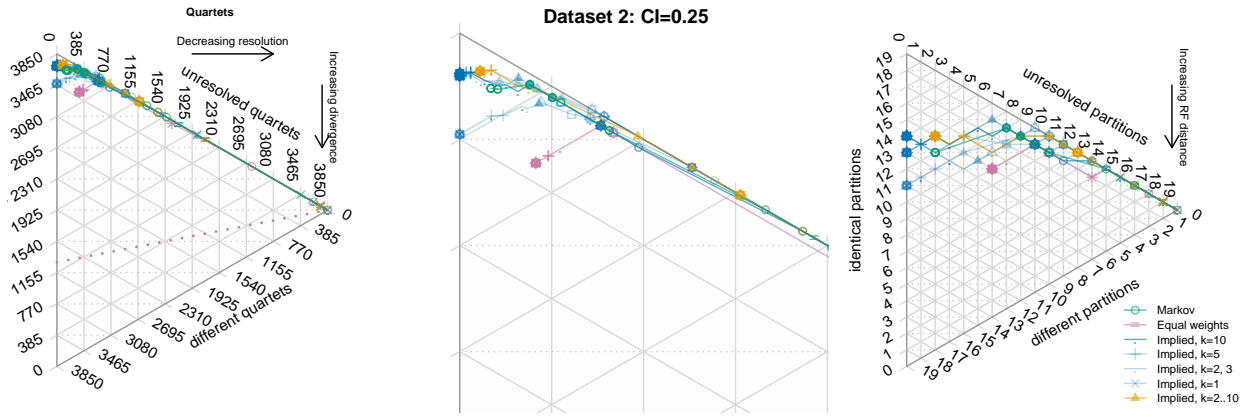
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```

Quartets

Decreasing resolution →

unresolved quartets

Increasing divergence

different quartets

Dataset 2: CI=0.25

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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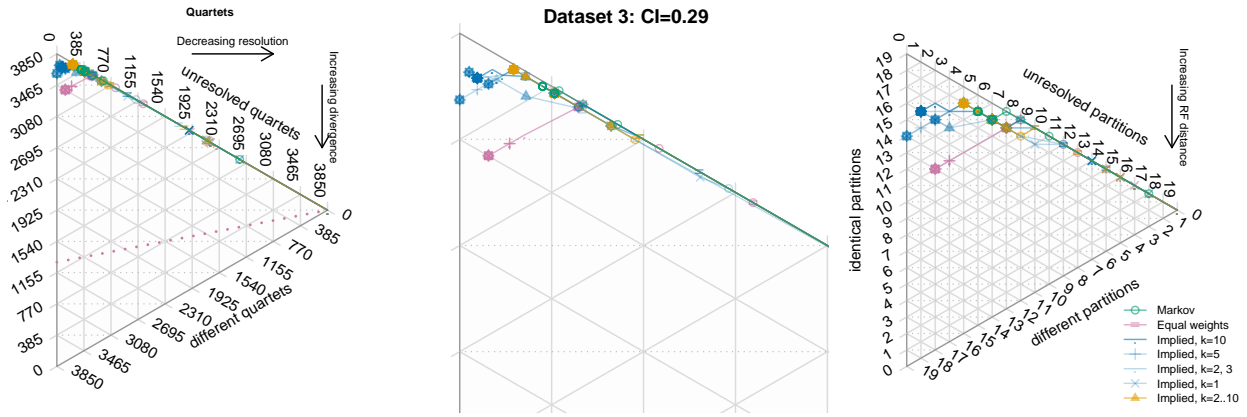
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Quartets Decreasing resolution Increasing divergence

Dataset 3: CI=0.29

Increasing RF distance

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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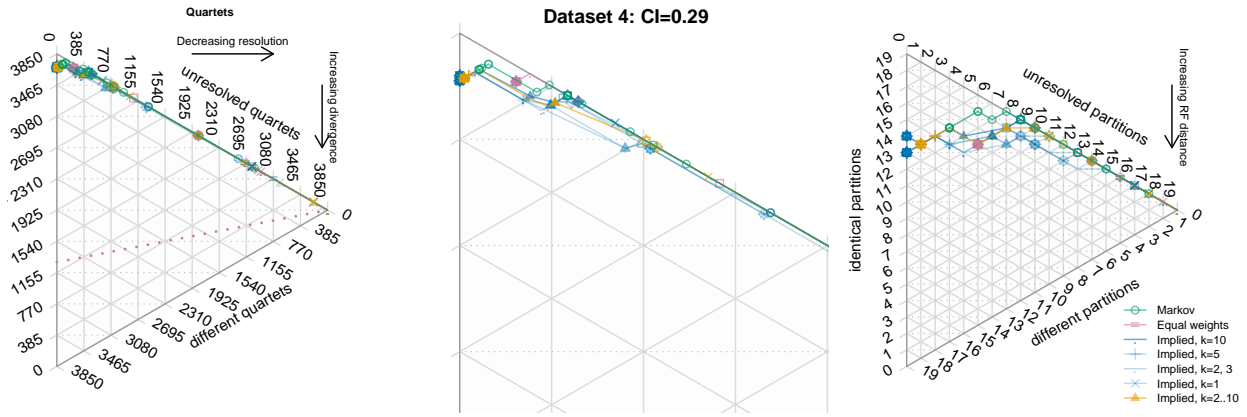
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Quartets

Dataset 4: CI=0.29

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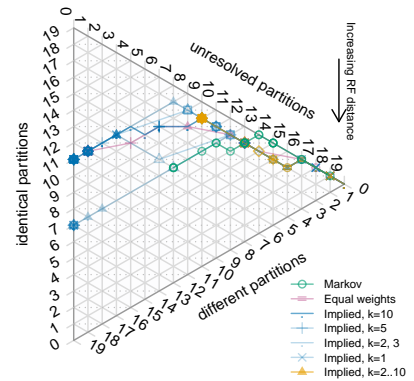
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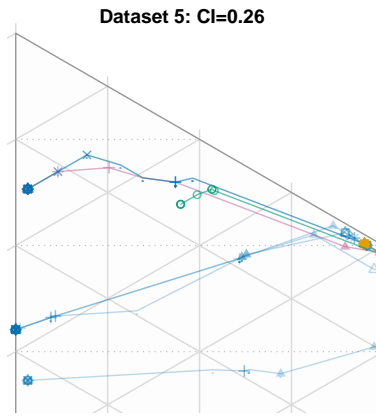
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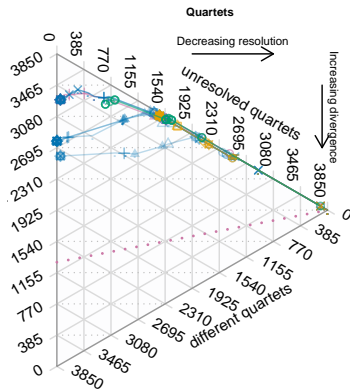
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Quartets · Decreasing resolution → · Increasing divergence · **Dataset 5: CI=0.26** · Increasing RF distance

unresolved quartets · different quartets · unresolved partitions · identical partitions · different partitions

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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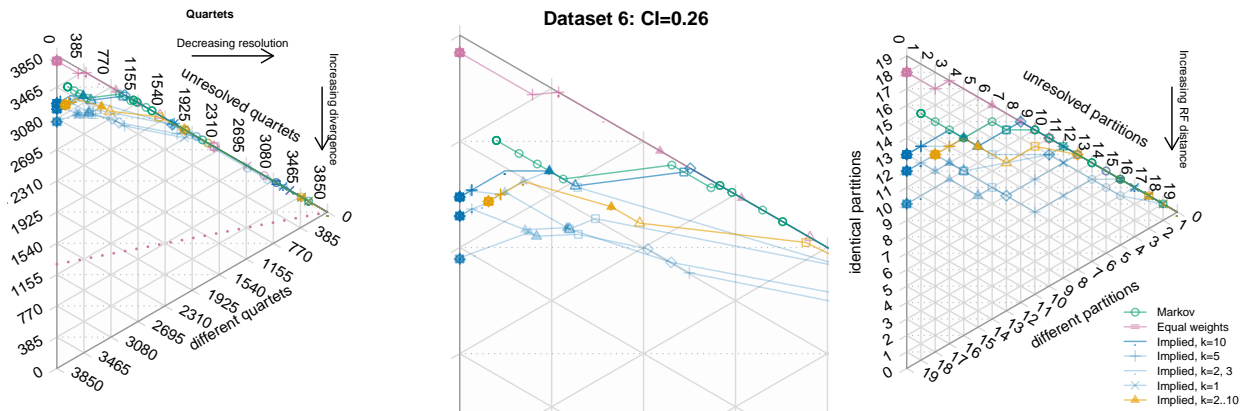
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```

Quartets

Dataset 6: CI=0.26

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

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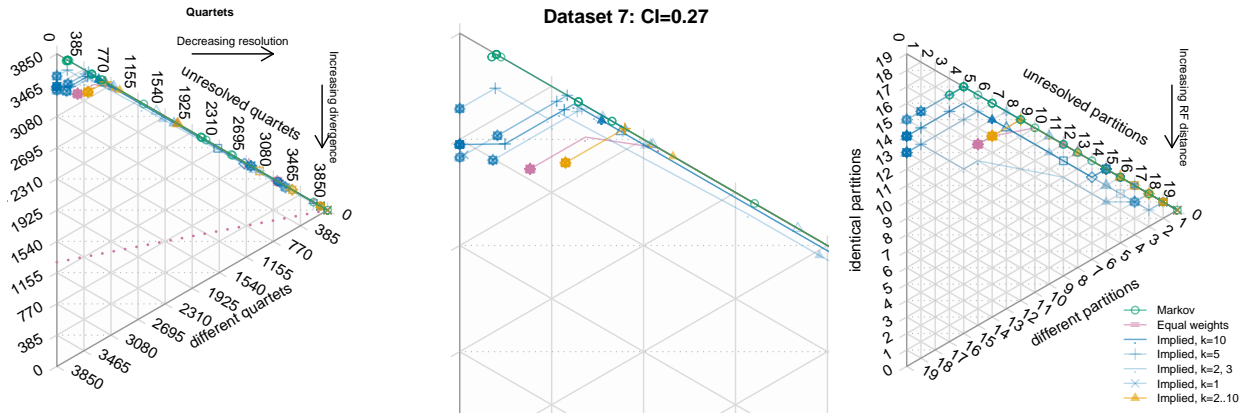
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```

Quartets

Decreasing resolution →

Increasing divergence ↓

unresolved quartets

different quartets

Dataset 7: 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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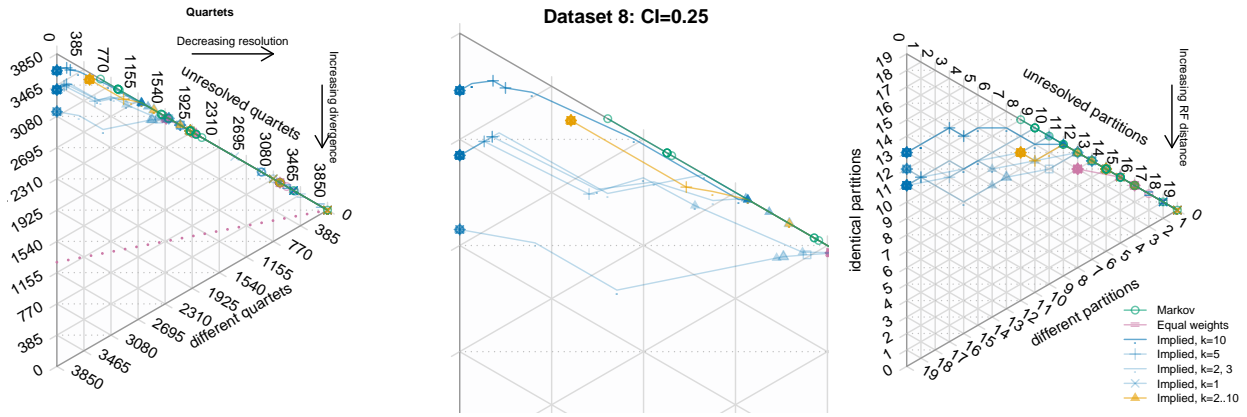
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Quartets

Decreasing resolution →

Dataset 8: CI=0.25

Increasing divergence

Increasing RF distance

unresolved quartets

different quartets

unresolved partitions

different partitions

identical 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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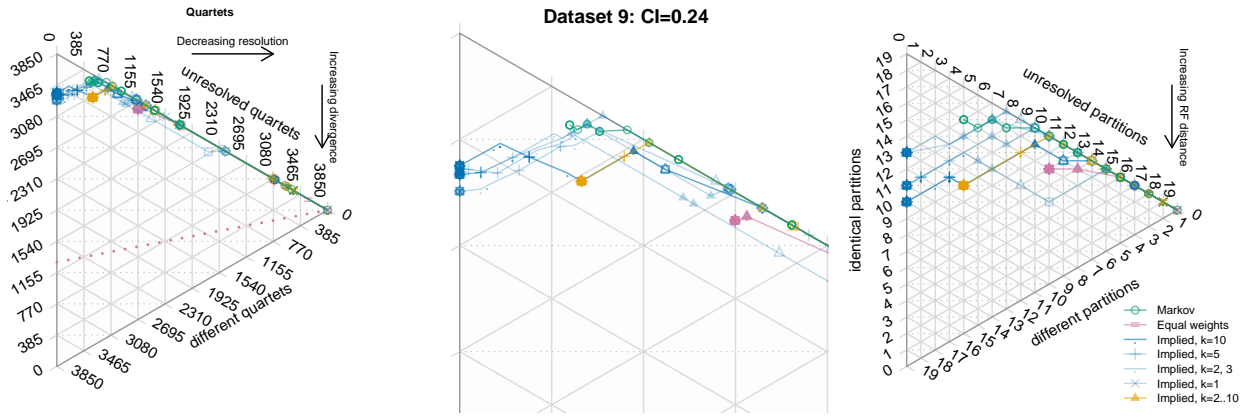
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```

Quartets

Decreasing resolution →

Increasing divergence

unresolved quartets

different quartets

Dataset 9: CI=0.24

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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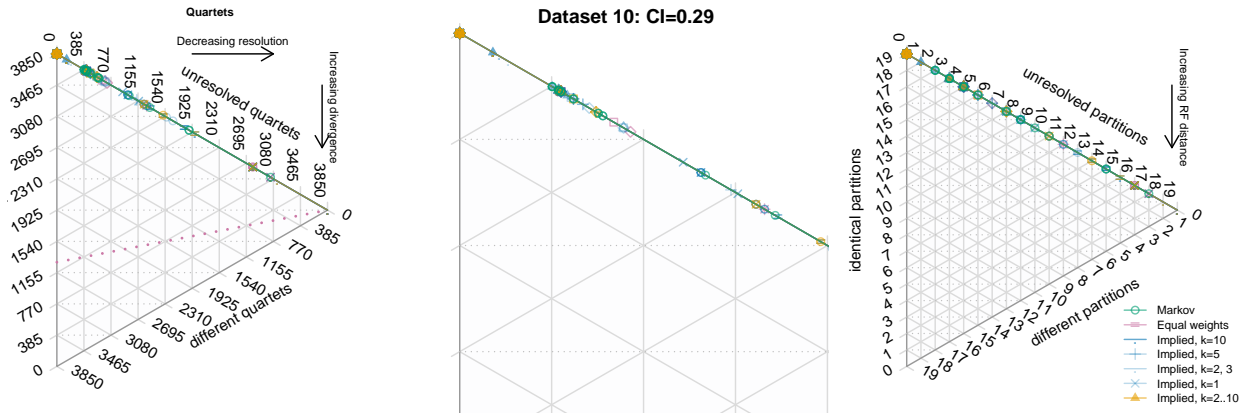
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Quartets

Dataset 10: CI=0.29

0.3 Trees 11–20

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```
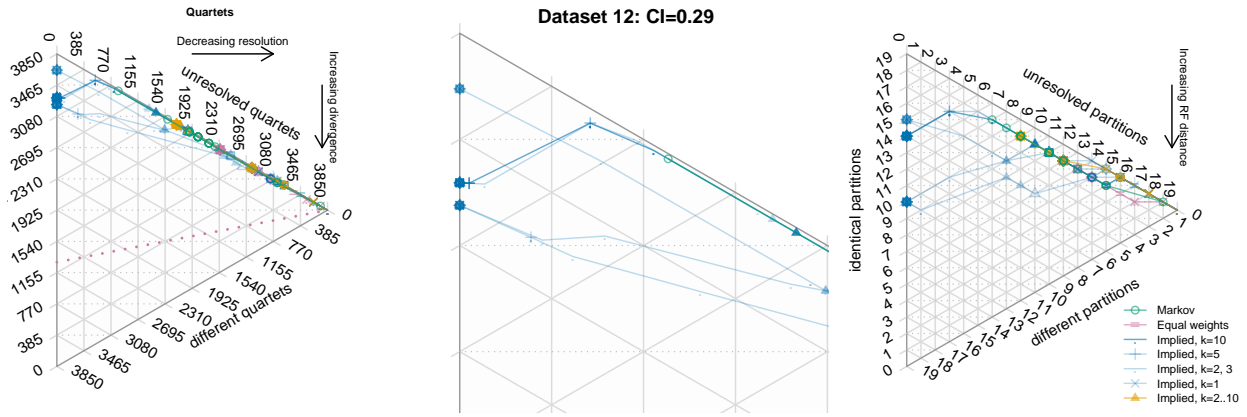
```
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```

Quartets

Dataset 11: CI=0.25

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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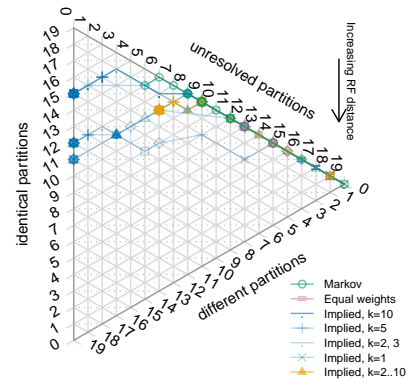
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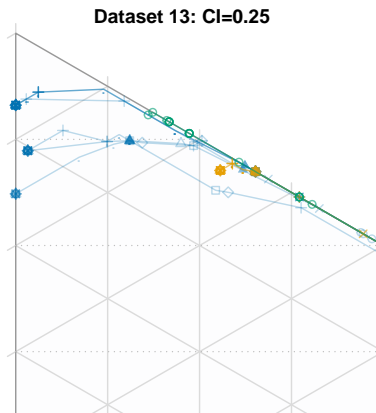
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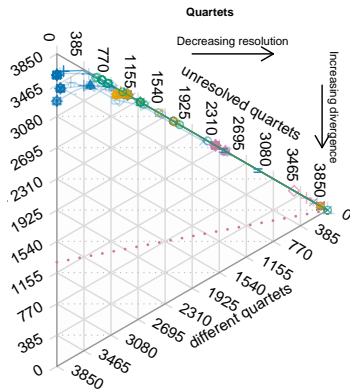
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Quartets

Dataset 12: CI=0.29

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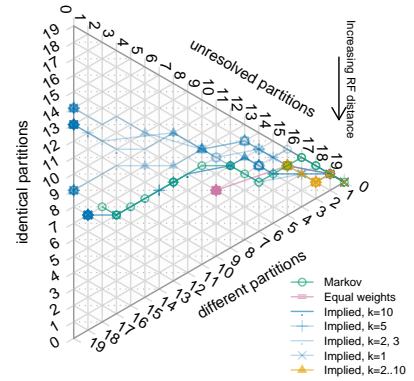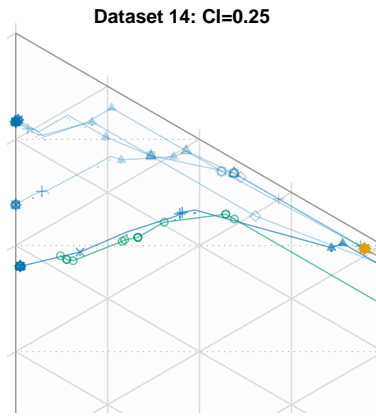
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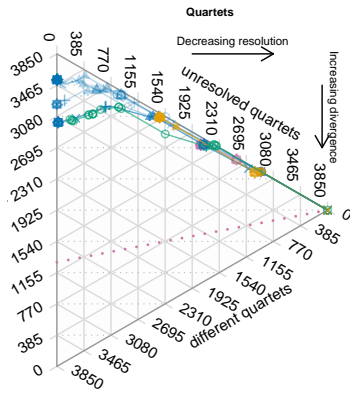
Quartets

Decreasing resolution

Increasing divergence

unresolved quartets

different quartets

Dataset 13: CI=0.25

identical partitions

unresolved partitions

different partitions

Increasing RF distance

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

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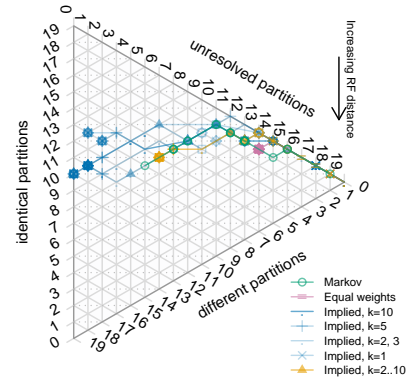
Quartets

Dataset 14: CI=0.25

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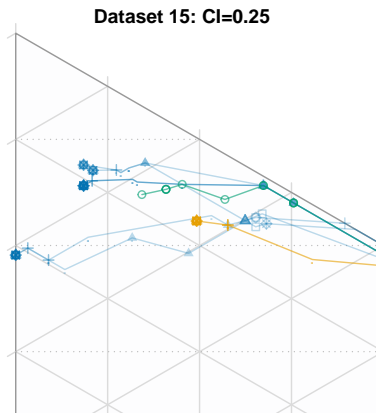
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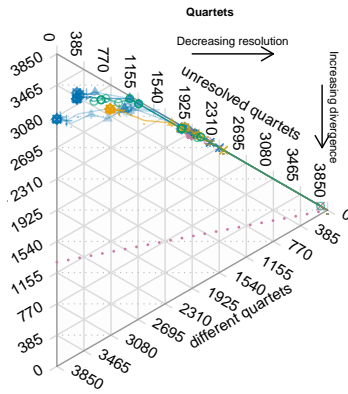
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Quartets

Decreasing resolution →

Increasing divergence

unresolved quartets

different quartets

Dataset 15: CI=0.25

Increasing RF distance

unresolved partitions

different partitions

identical 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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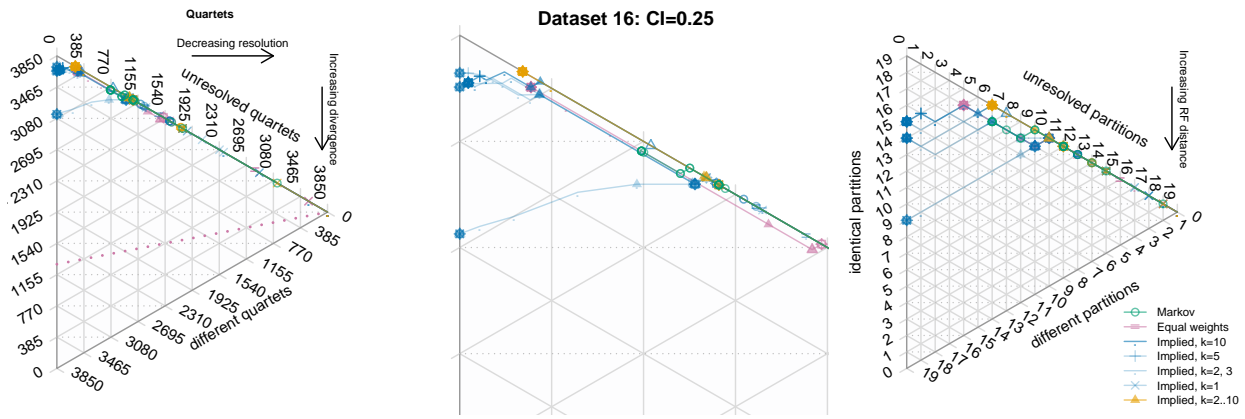
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```

Quartets

Dataset 16: CI=0.25

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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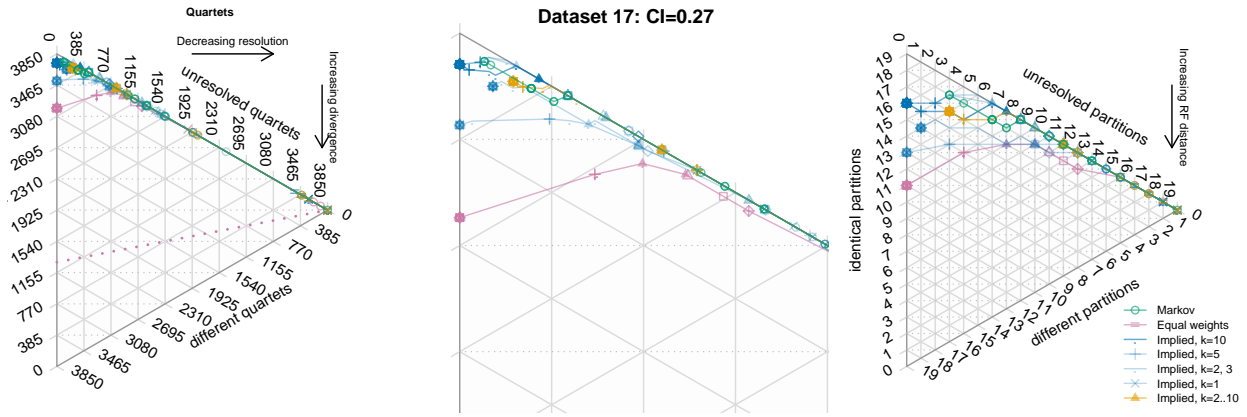
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Quartets

Decreasing resolution →

Increasing divergence

unresolved quartets

different quartets

Dataset 17: 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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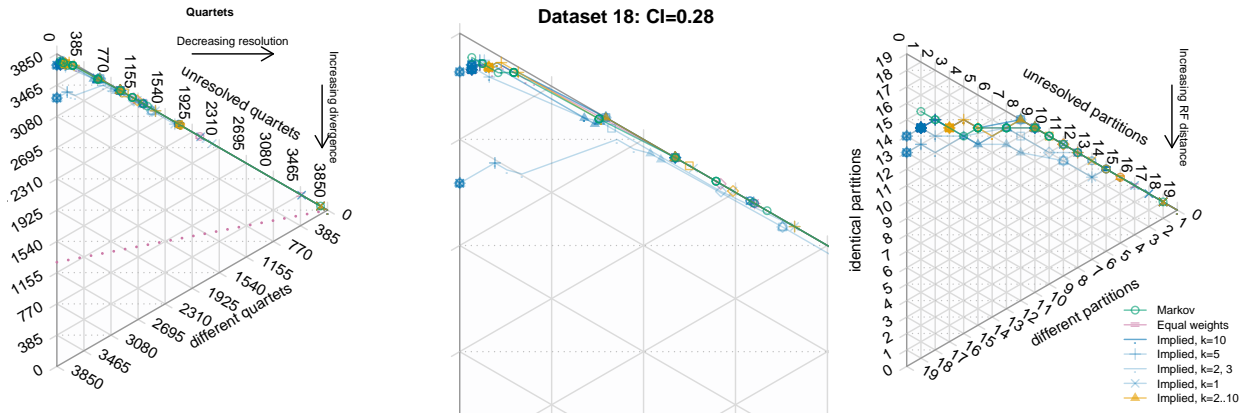
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Quartets

Decreasing resolution →

Dataset 18: CI=0.28

Increasing RF distance →

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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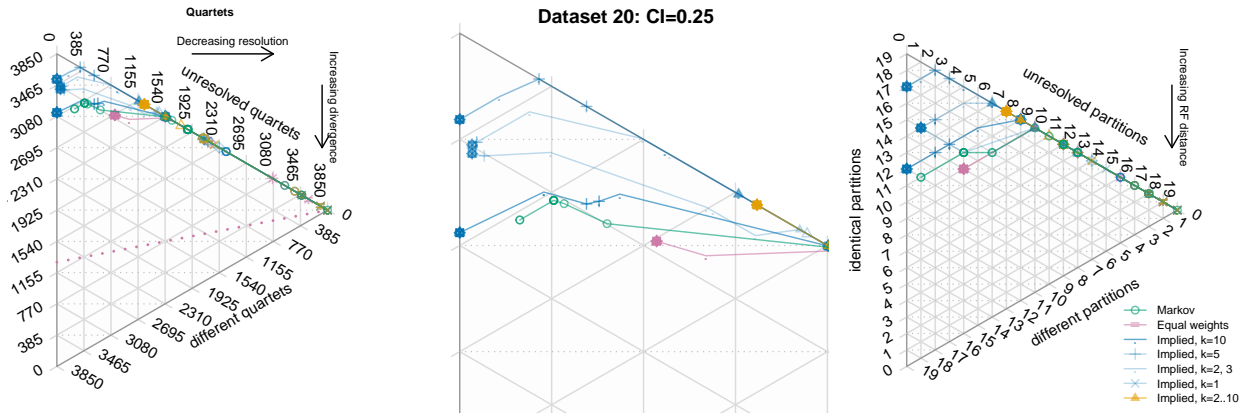
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Quartets

Dataset 19: CI=0.3

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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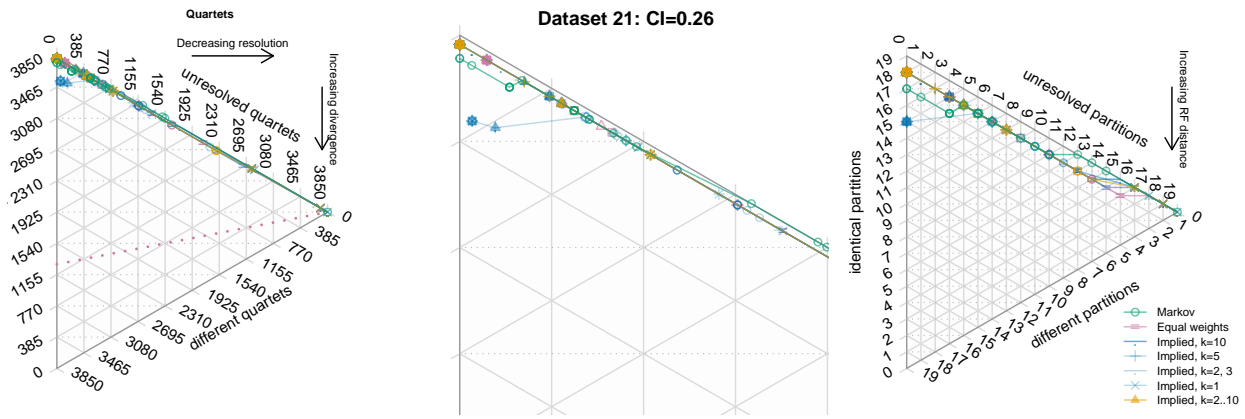
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```

Quartets

Dataset 20: CI=0.25

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

0.4   Trees 21–30

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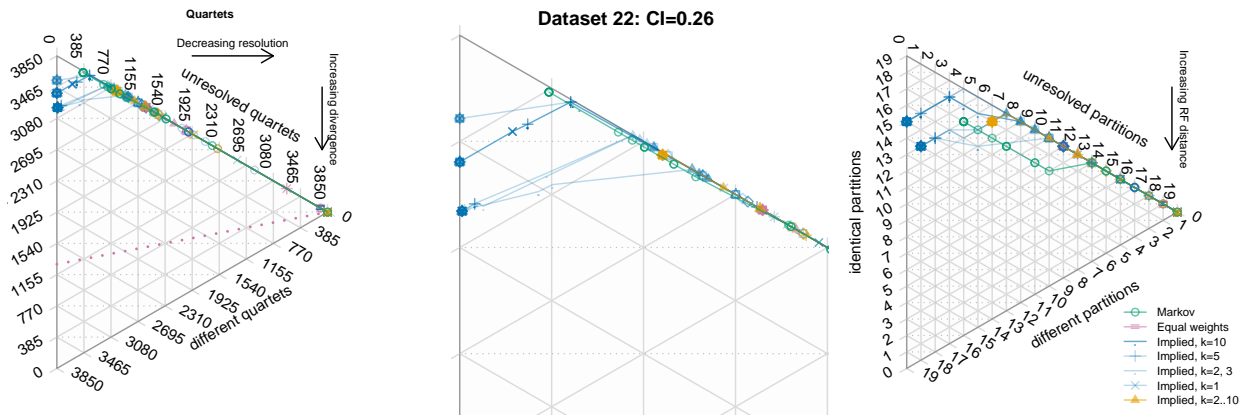
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Quartets

Dataset 21: CI=0.26

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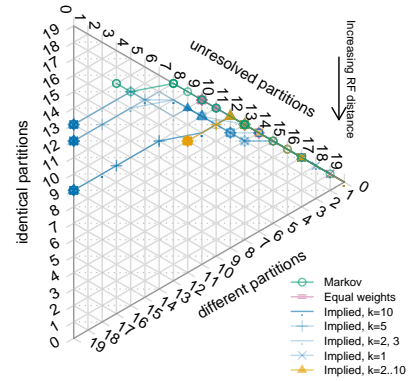
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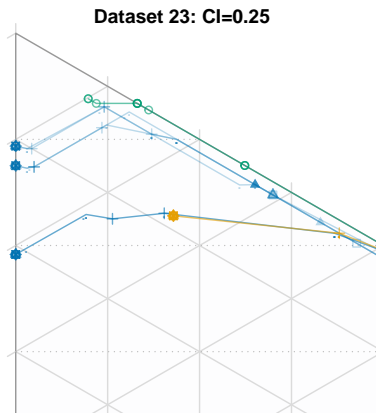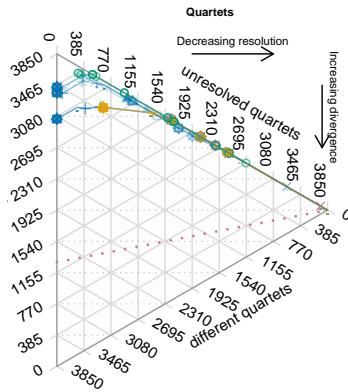
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Quartets

Dataset 22: CI=0.26

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```
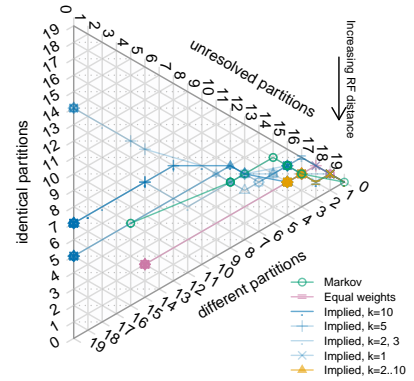
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```
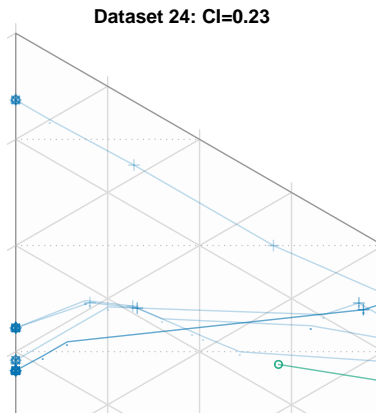
Dataset 23: CI=0.25

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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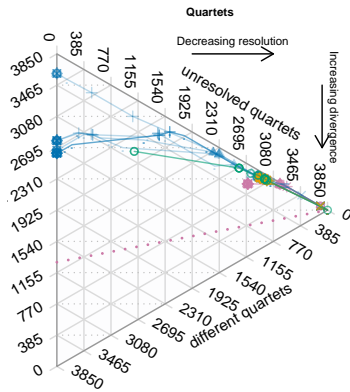
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Quartets

Dataset 24: CI=0.23

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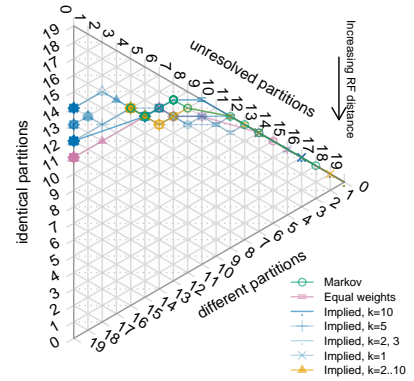
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```
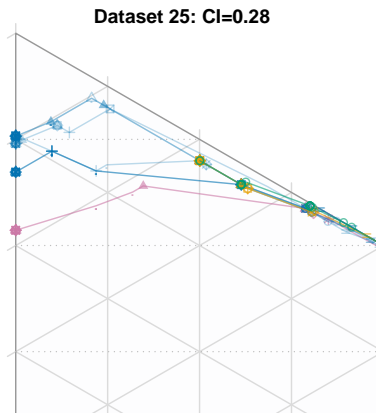
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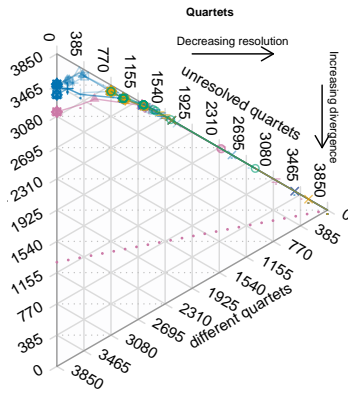
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Quartets

Dataset 25: CI=0.28

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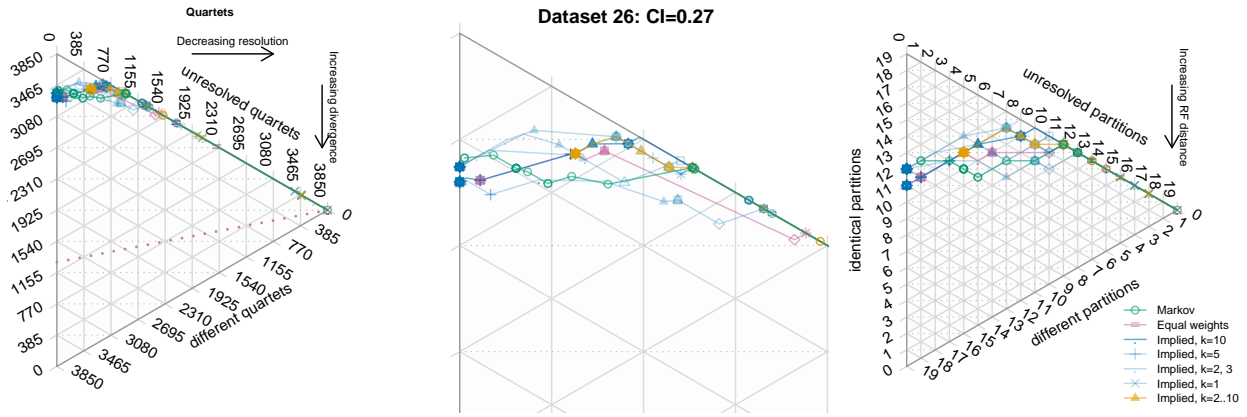
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Quartets

Dataset 26: CI=0.27

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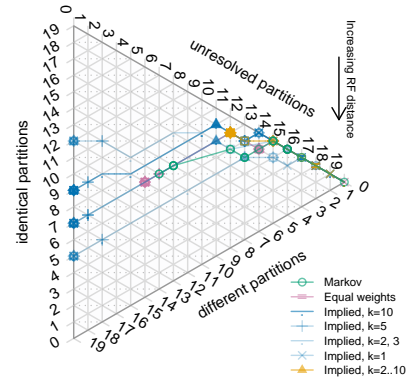
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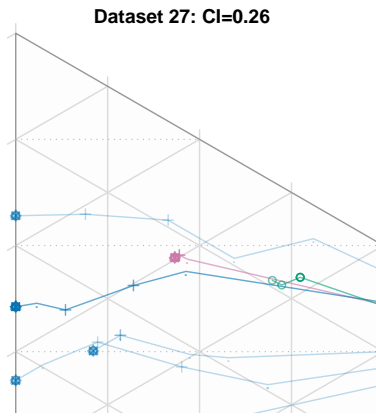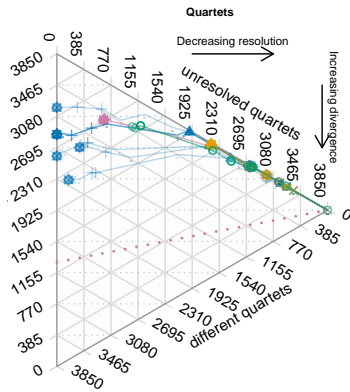
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```

Quartets

Dataset 27: 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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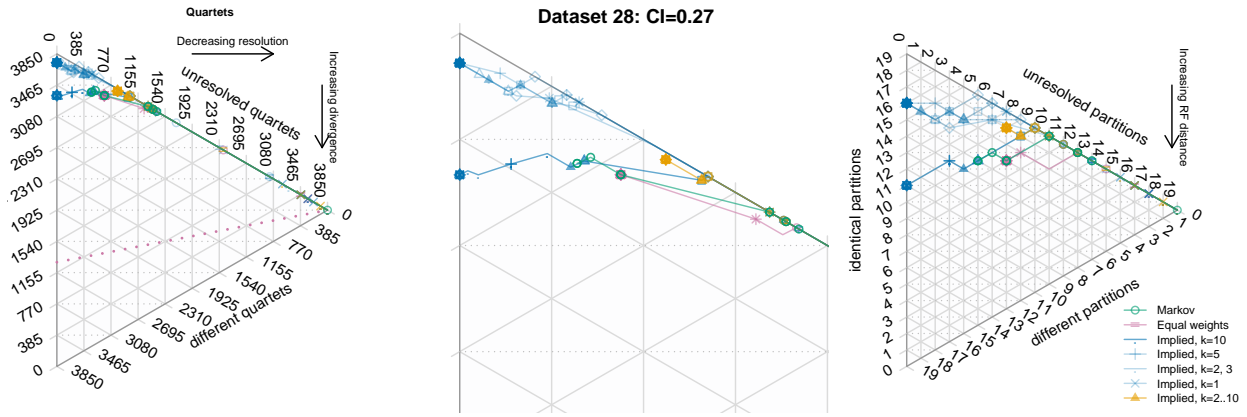
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```

Quartets

Dataset 28: CI=0.27

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

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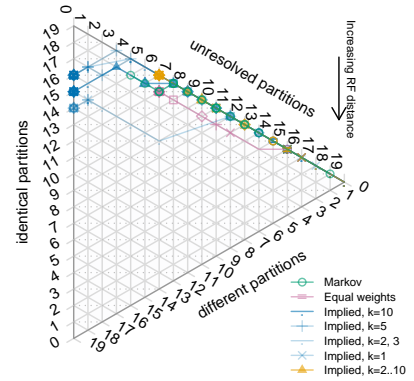
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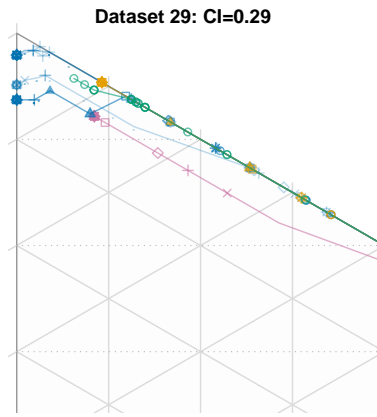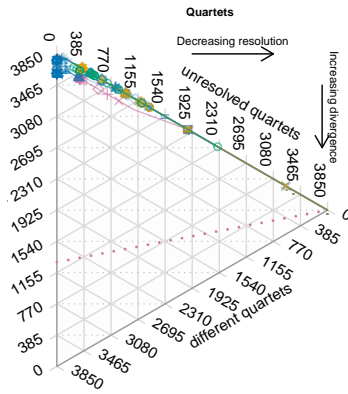
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Quartets

Dataset 29: CI=0.29

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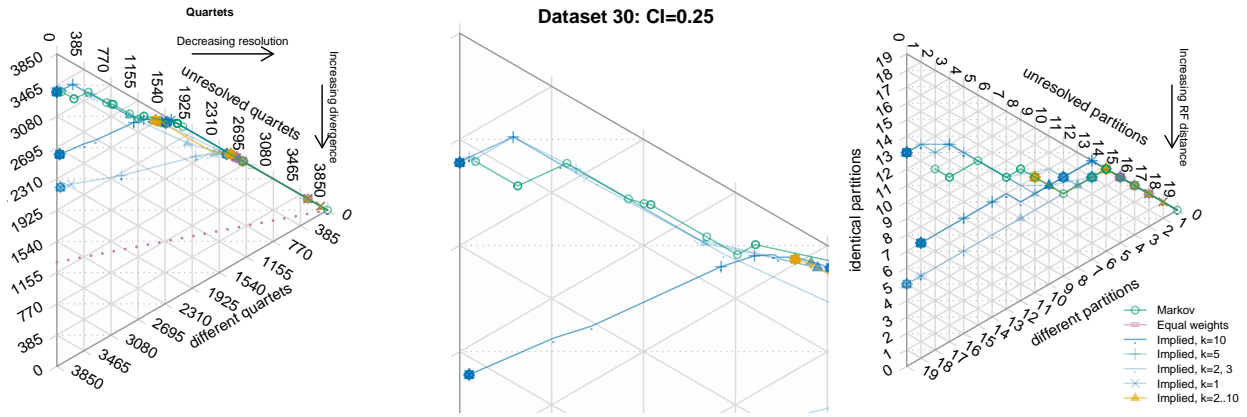
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Quartets

Decreasing resolution →

unresolved quartets

Increasing divergence

different quarters

Dataset 30: CI=0.25

identical partitions

unreasolved partitions

Increasing RF distance

different partitions

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

0.5   Trees 31–40

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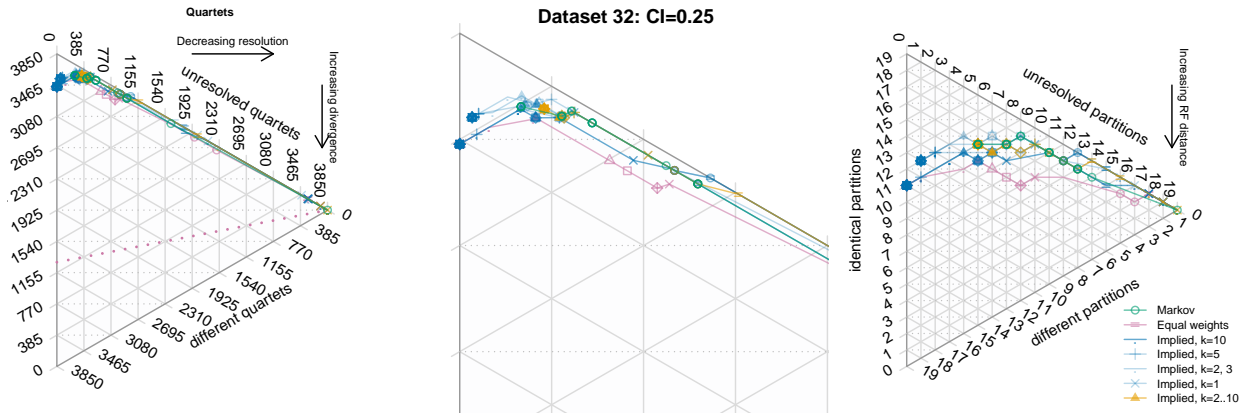
Quartets

Dataset 31: CI=0.26

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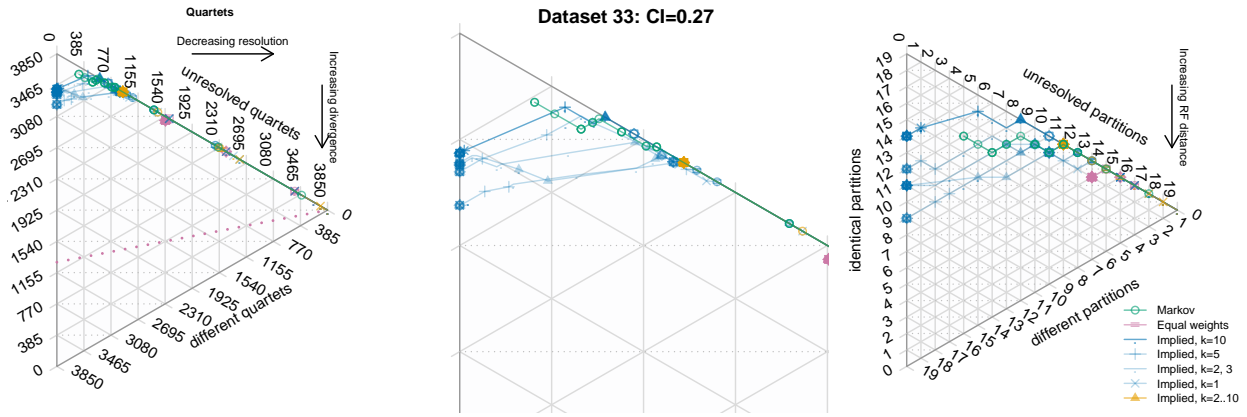
Quartets

Dataset 32: CI=0.25

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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```

Quartets

Dataset 33: CI=0.27

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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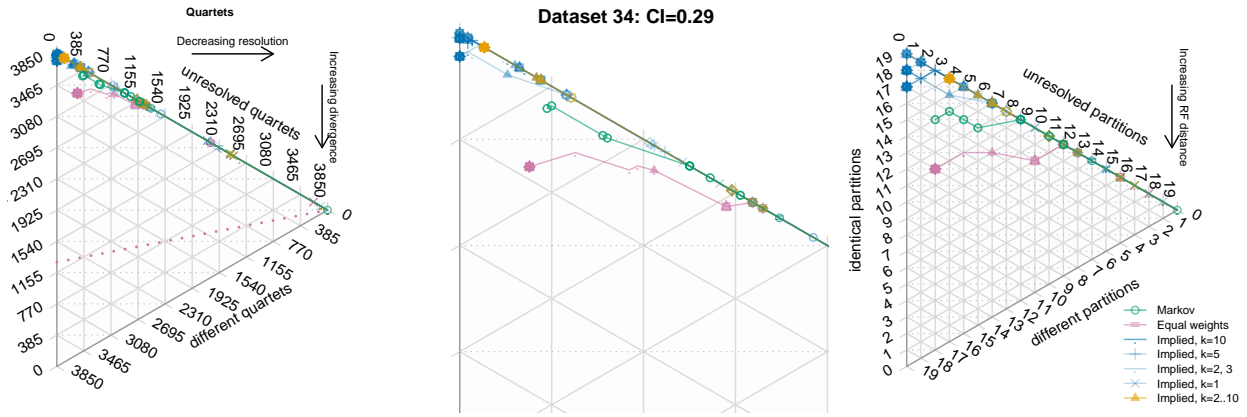
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Quartets

Dataset 34: CI=0.29

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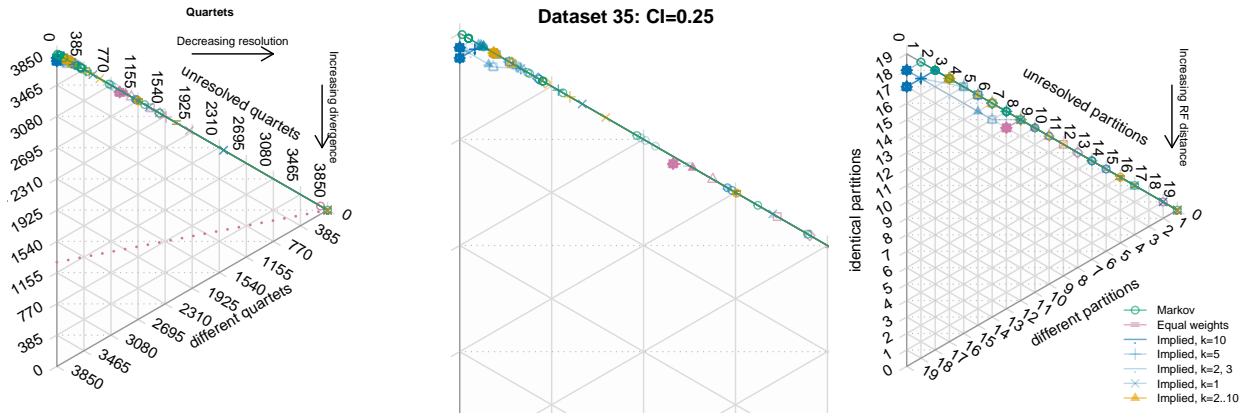
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```

Quartets

Dataset 35: CI=0.25

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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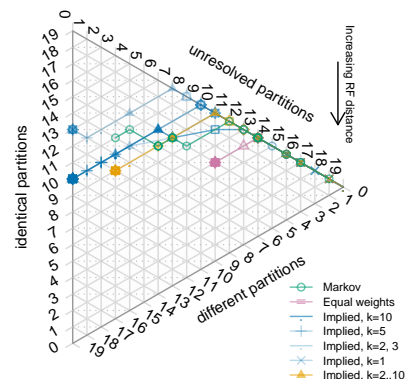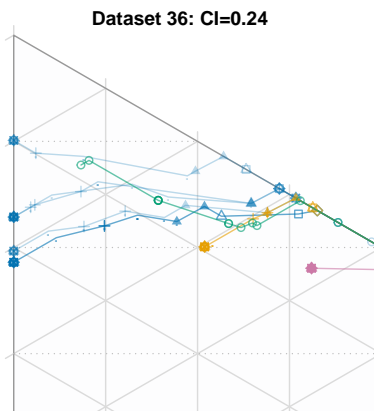
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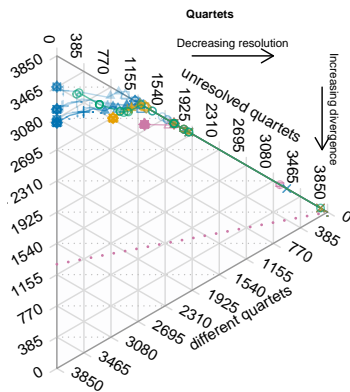
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Quartets ... **Dataset 36: CI=0.24**

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```
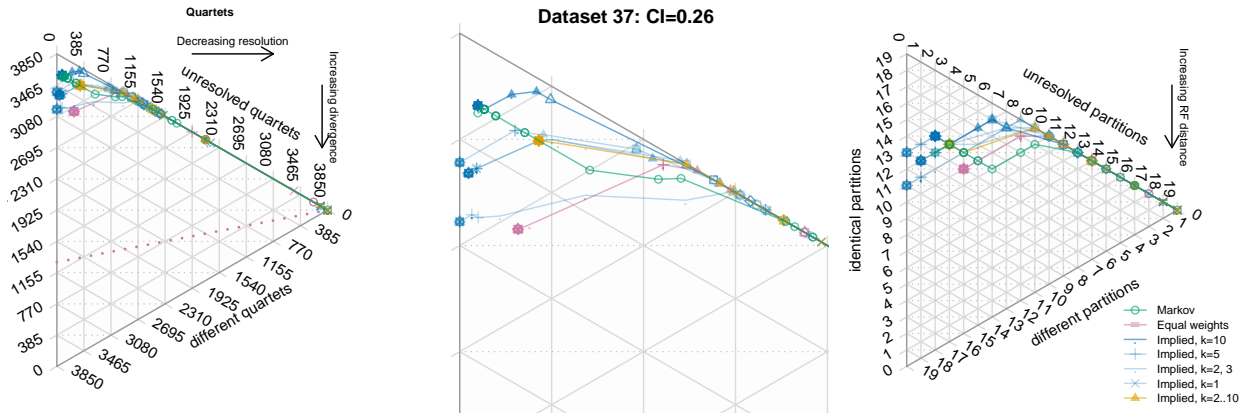
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```

Quartets

Decreasing resolution →

↓ Increasing divergence

unresolved quartets

different quartets

Dataset 37: CI=0.26

Increasing RF distance

unresolved partitions

identical partitions

different partitions

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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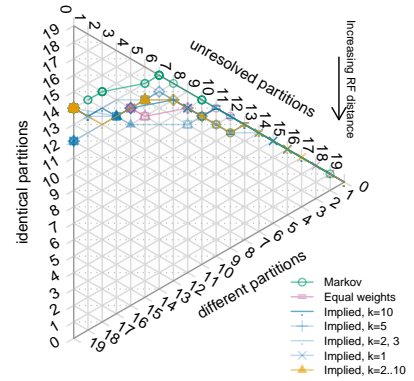
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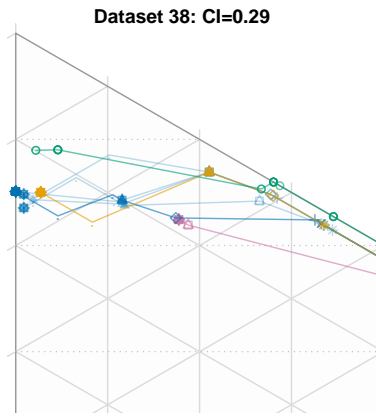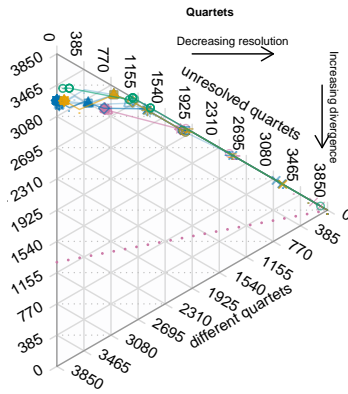
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Quartets

Decreasing resolution →

Dataset 38: CI=0.29

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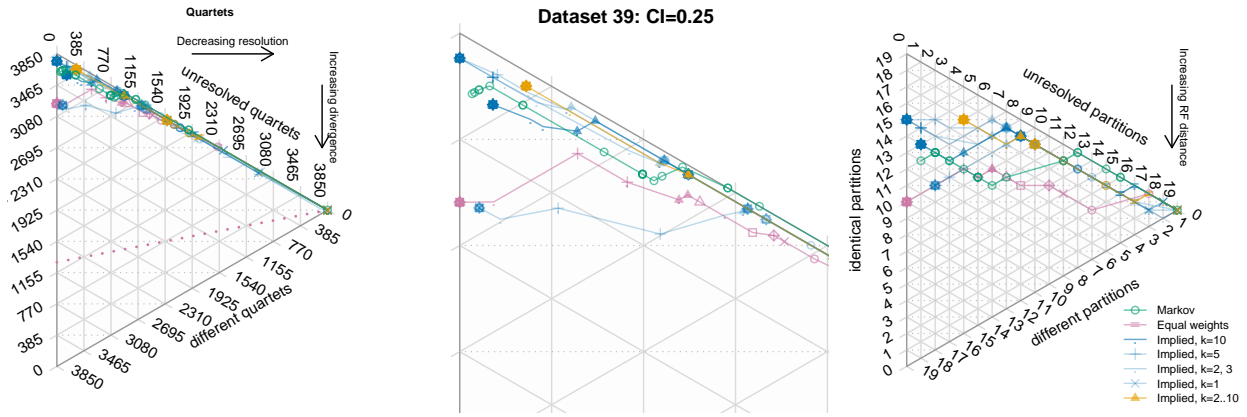
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Quartets

Decreasing resolution →

Increasing divergence

unresolved quartets

different quartets

Dataset 39: CI=0.25

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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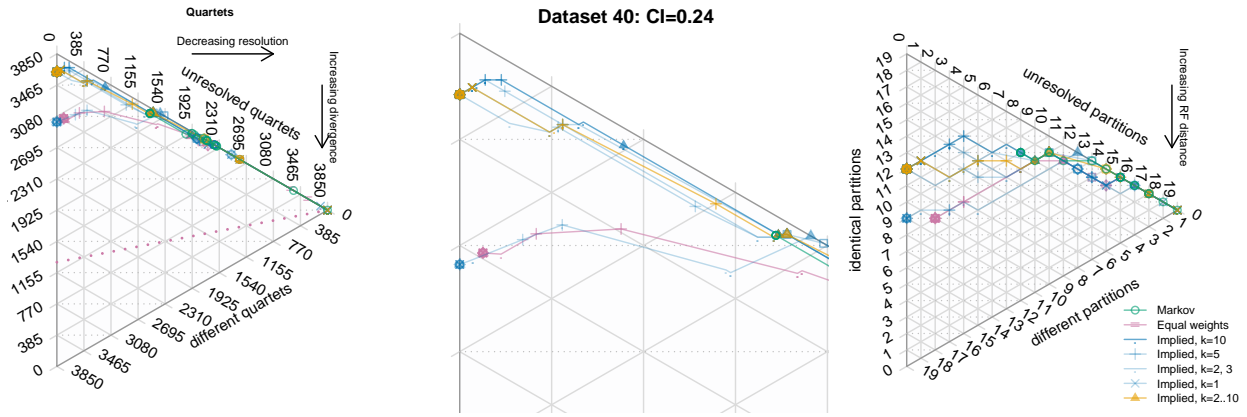
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Quartets

Decreasing resolution →

unresolved quartets

Increasing divergence

different quarters

Dataset 40: CI=0.24

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

0.6   Trees 41–50

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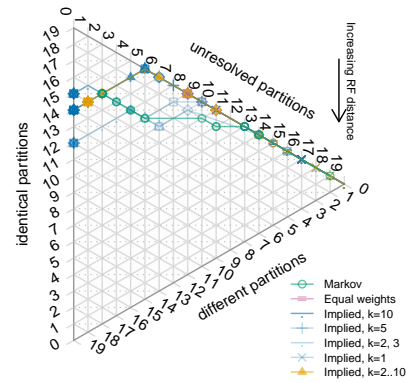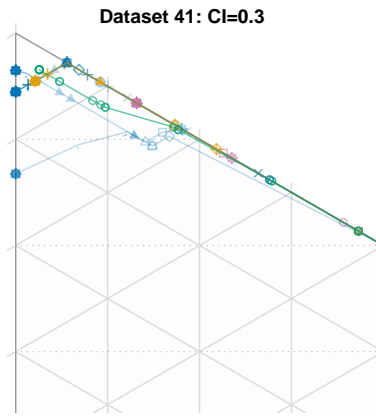
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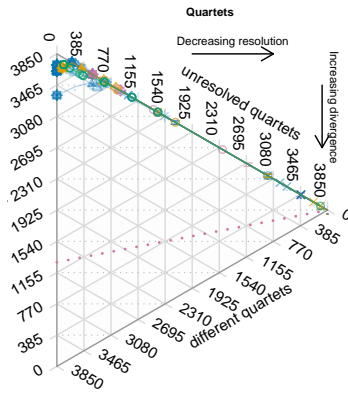
Quartets

Dataset 41: CI=0.3

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Quartets

Dataset 42: CI=0.24

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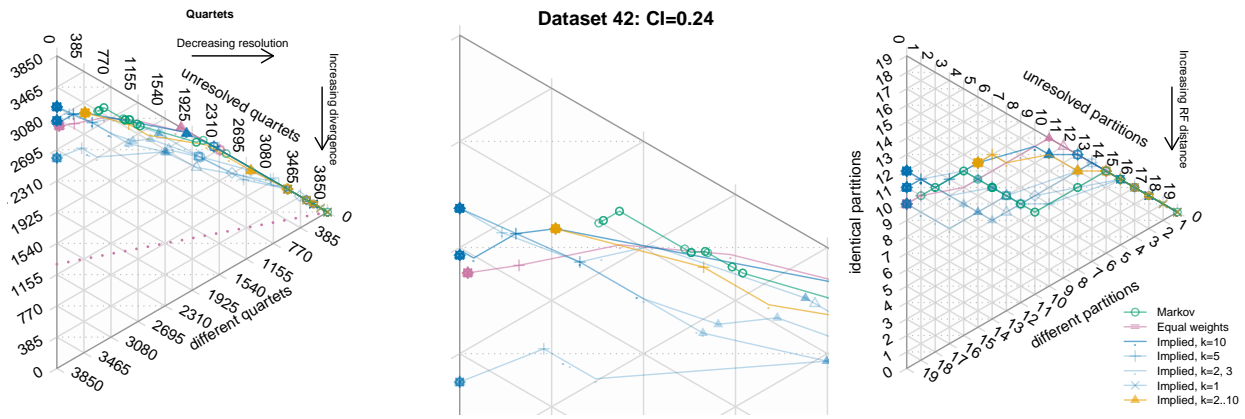
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```

Quartets — Decreasing resolution — unresolved quartets — Increasing divergence — different quarters

Dataset 43: CI=0.27

Increasing RF distance — unresolved partitions — identical partitions — different partitions

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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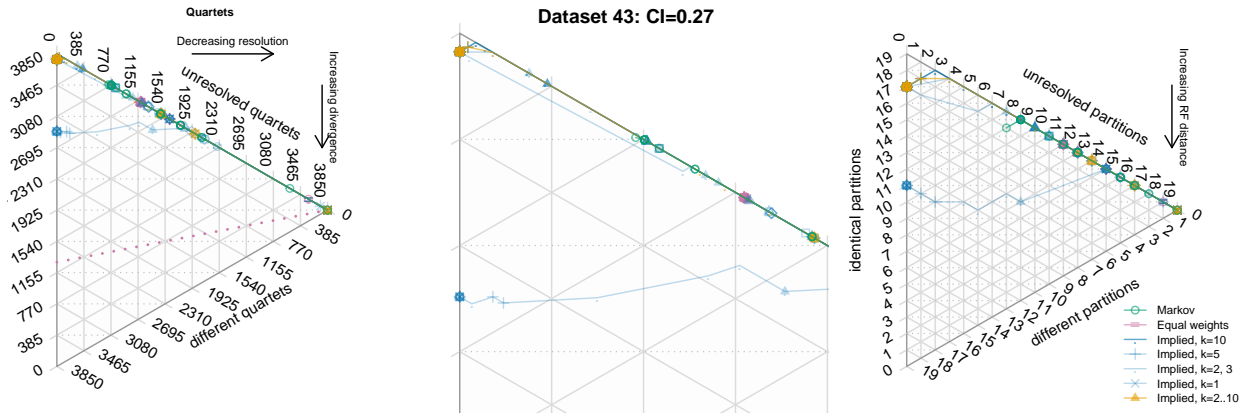
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Quartets

Dataset 44: CI=0.27

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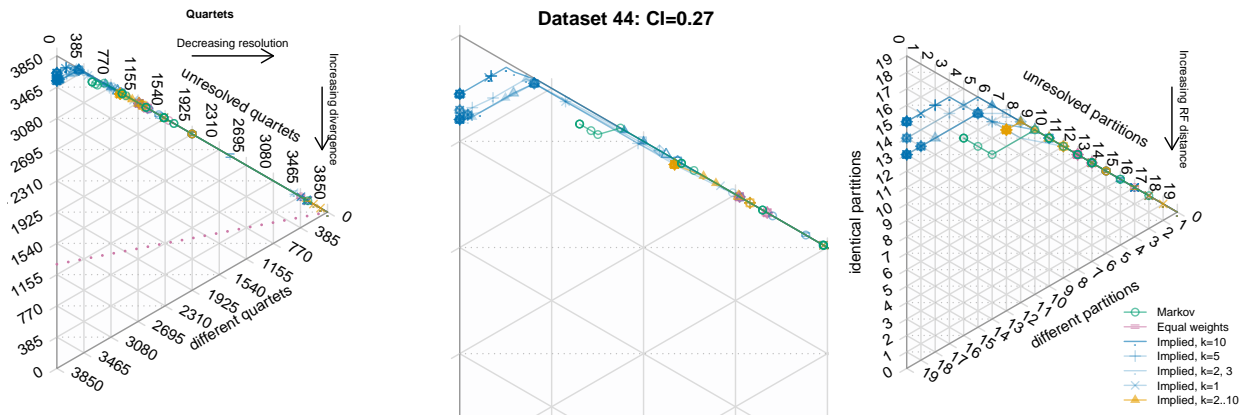
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Quartets

Decreasing resolution →

Dataset 45: CI=0.27

Increasing divergence

unresolved 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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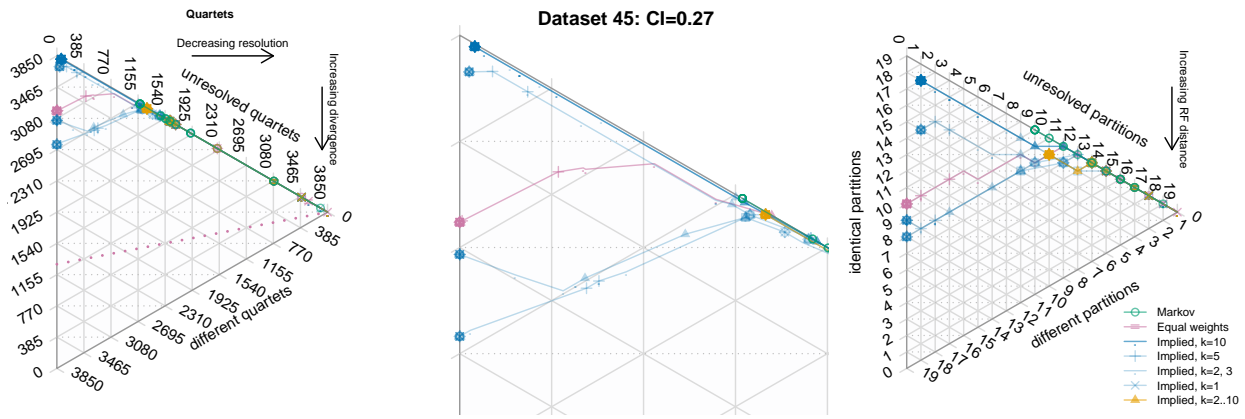
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Quartets

Dataset 46: CI=0.24

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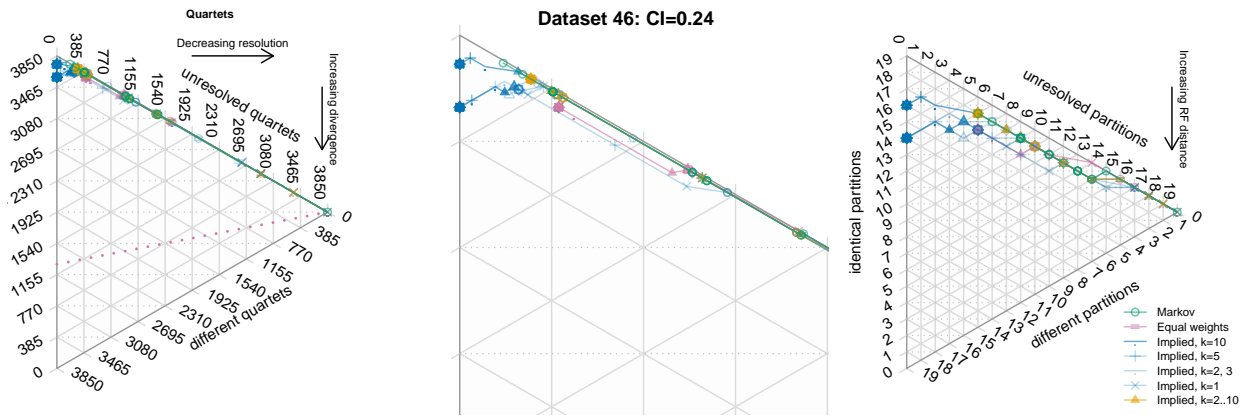
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Quartets

Dataset 47: CI=0.29

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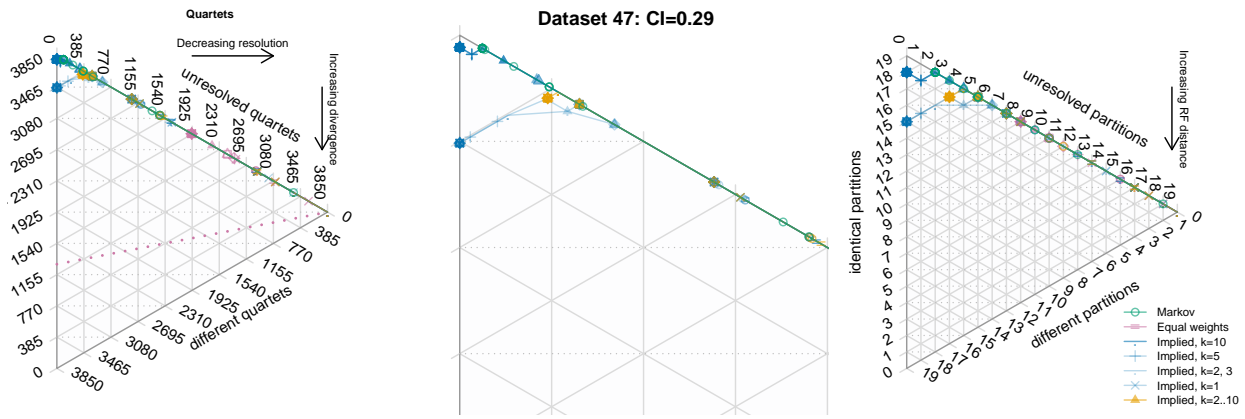
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Quartets

Decreasing resolution →

unresolved quartets

↓ Increasing divergence

different quartets

Dataset 48: CI=0.27

unresolved partitions

↓ Increasing RF distance

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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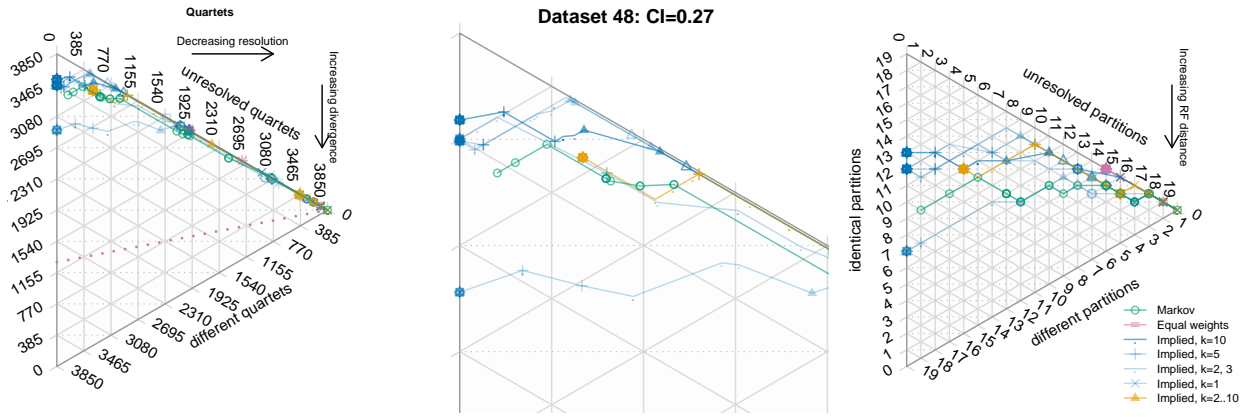
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Quartets

Decreasing resolution →

unresolved quartets

Increasing divergence

different quarters

Dataset 49: CI=0.28

unresolved partitions

Increasing RF distance

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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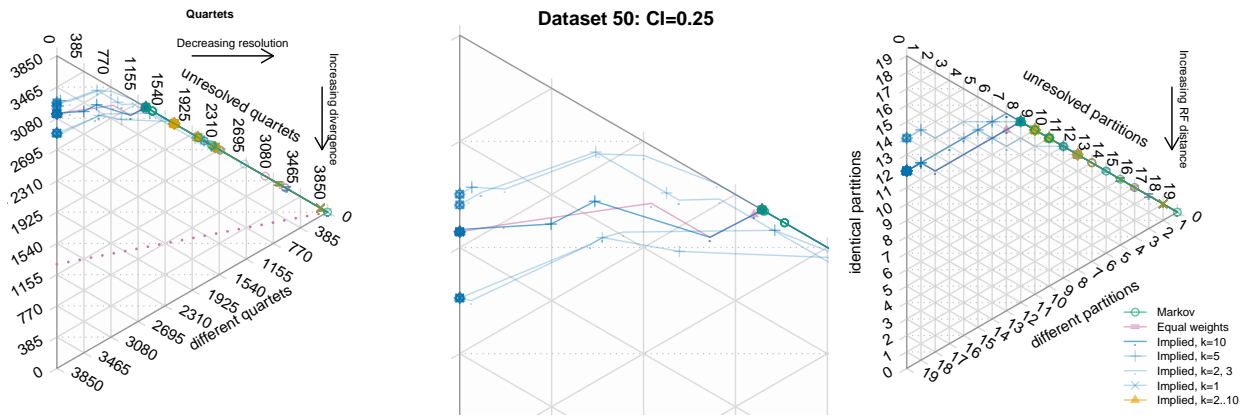
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Quartets

Dataset 50: CI=0.25

0.7 Trees 51–60

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```
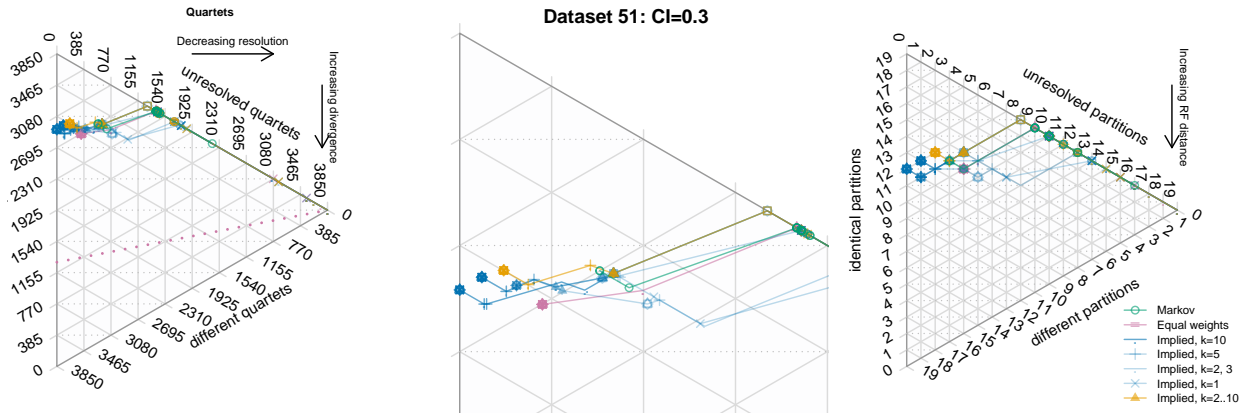
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```

Quartets

Dataset 51: CI=0.3

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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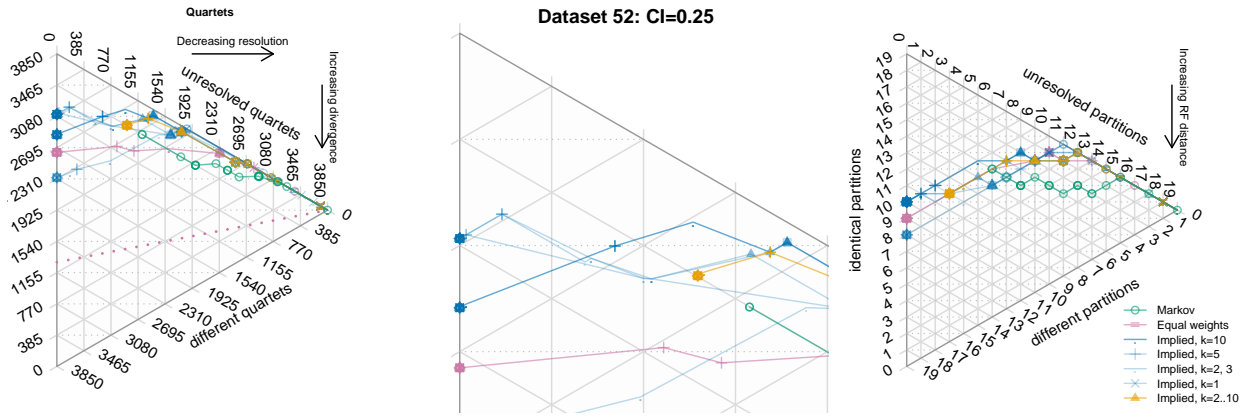
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Quartets

Dataset 52: CI=0.25

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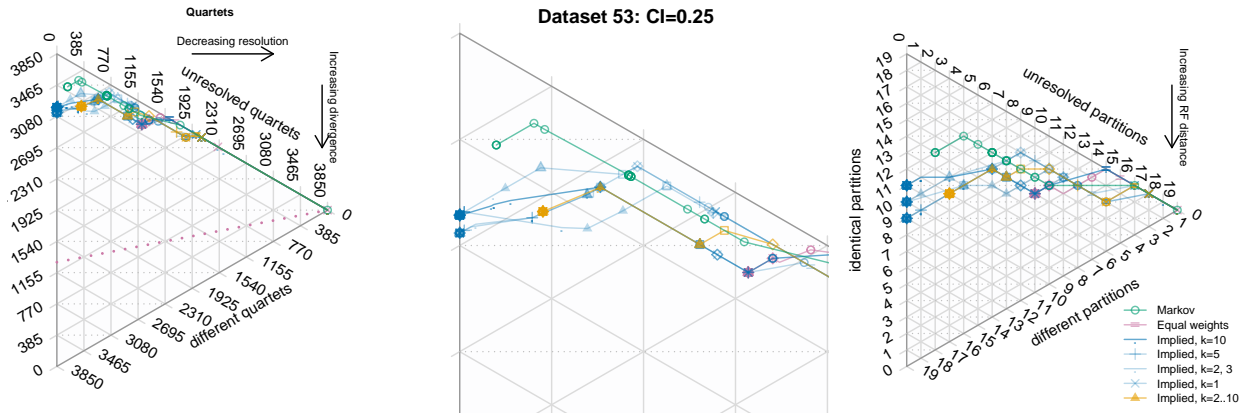
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Quartets

Dataset 53: CI=0.25

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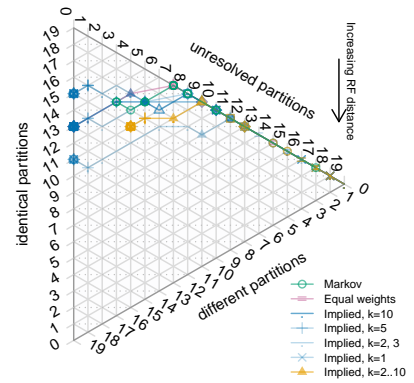
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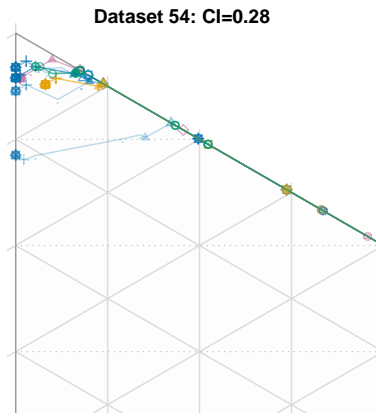
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```
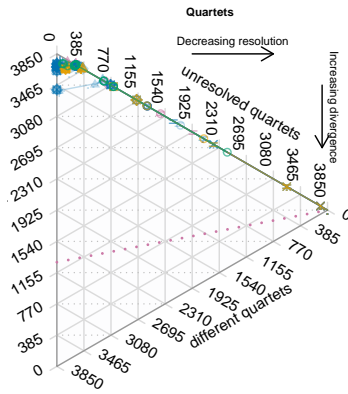
```
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Dataset 54: CI=0.28


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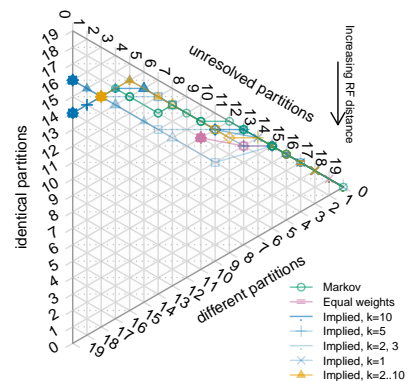
Quartets

Dataset 55: CI=0.28

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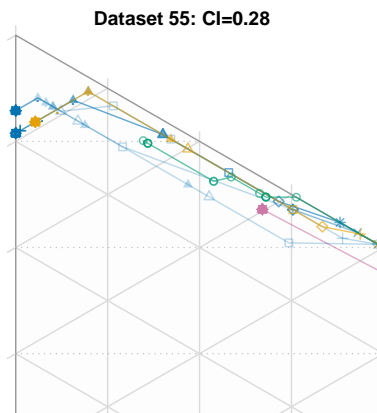
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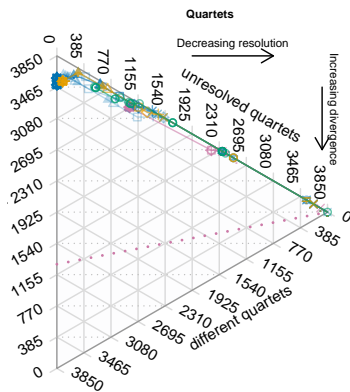
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Quartets

Dataset 56: CI=0.31

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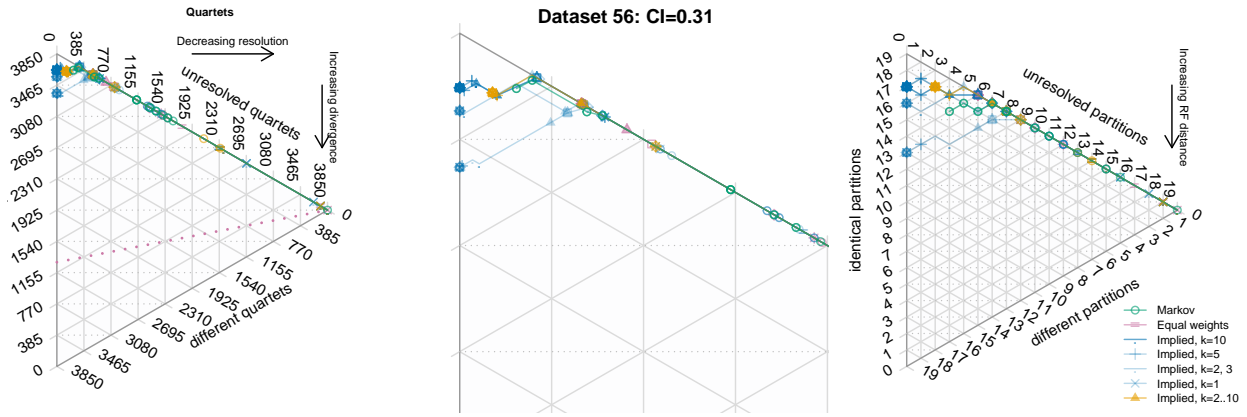
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Quartets

Decreasing resolution →

Increasing divergence

unresolved quartets

different quartets

Dataset 57: CI=0.25

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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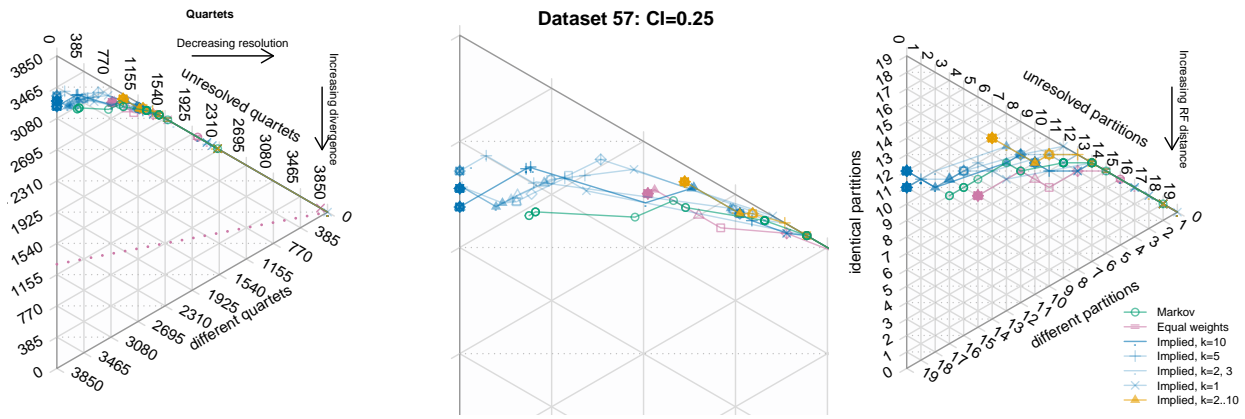
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```

Quartets

Dataset 58: CI=0.25

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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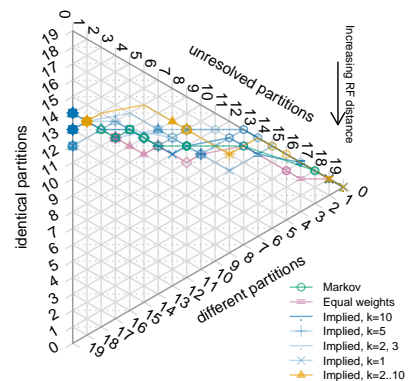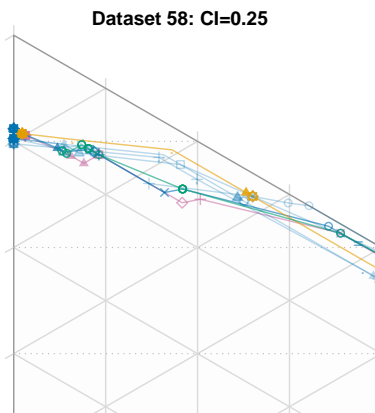
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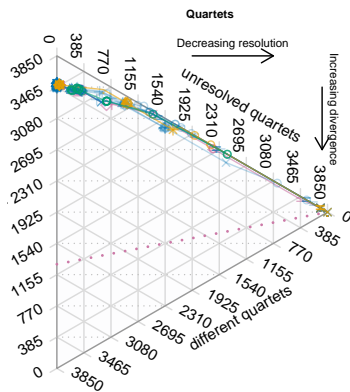
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```

Quartets

Dataset 59: 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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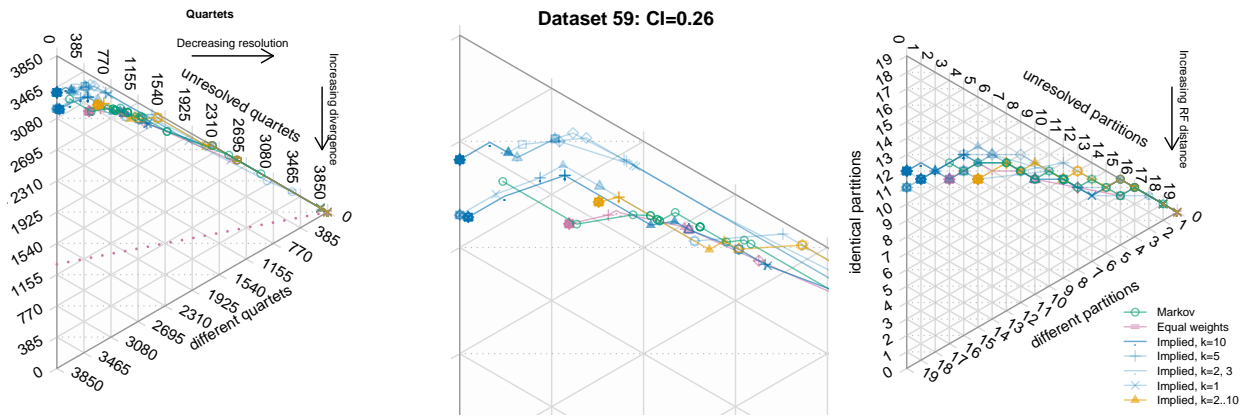
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Quartets   **Dataset 60: CI=0.24**

0.8   Trees 61–70

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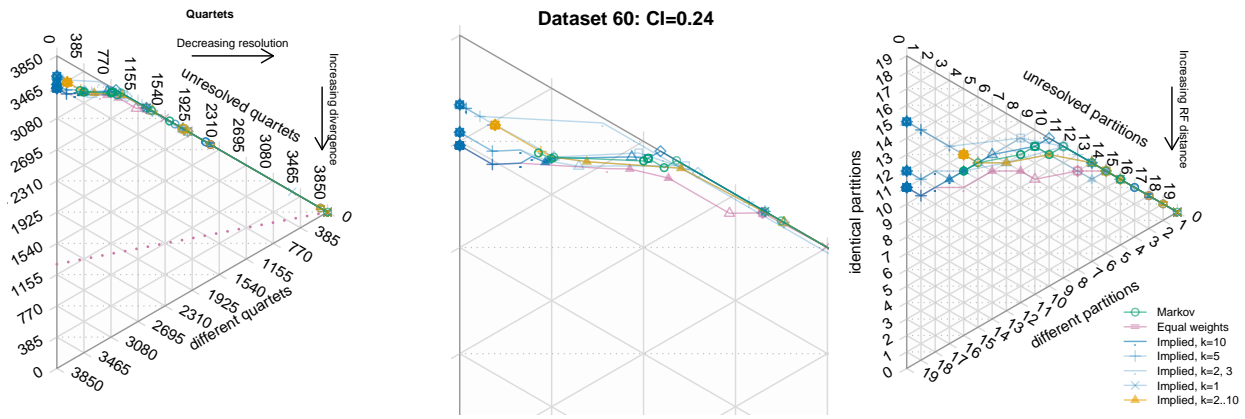
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```

Quartets **Dataset 61: 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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```
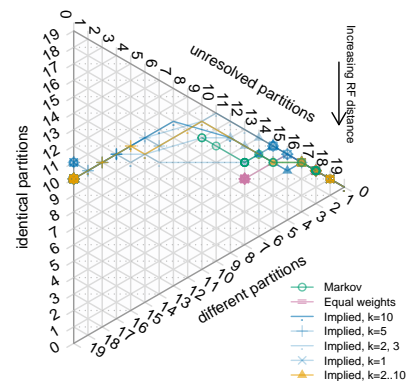
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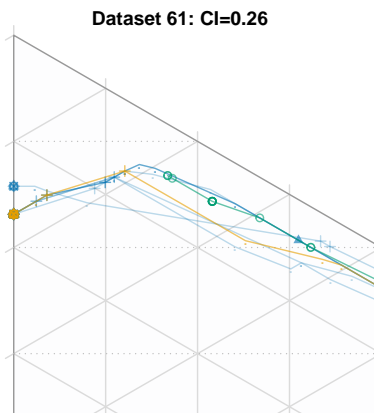
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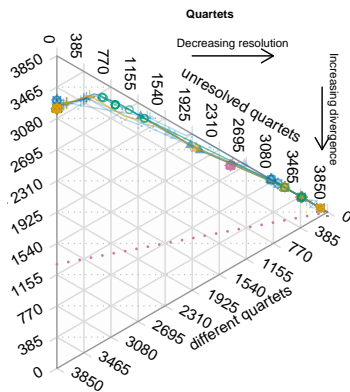
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Quartets

Dataset 62: CI=0.26

Decreasing resolution

Increasing divergence

unresolved 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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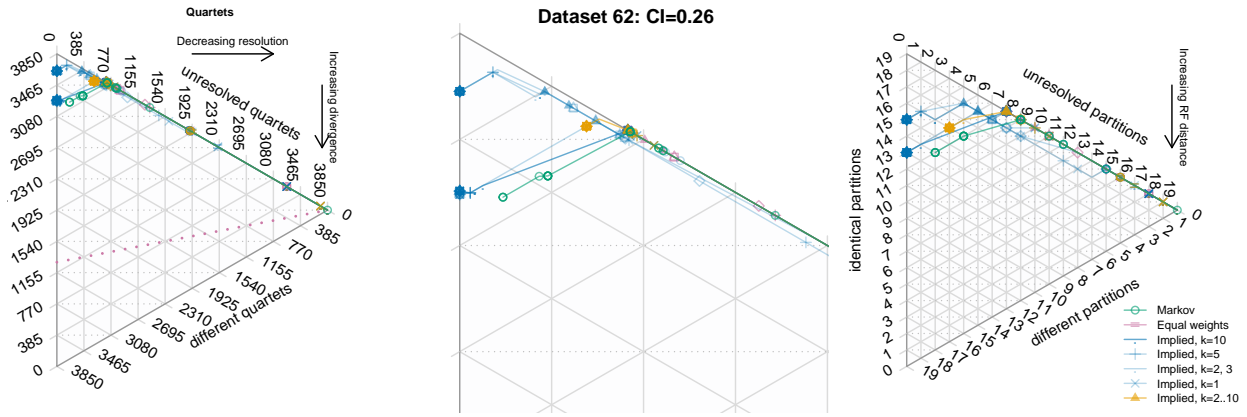
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Quartets

Dataset 63: CI=0.24

Decreasing resolution →
Increasing divergence

unresolved 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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Quartets

Dataset 64: CI=0.29

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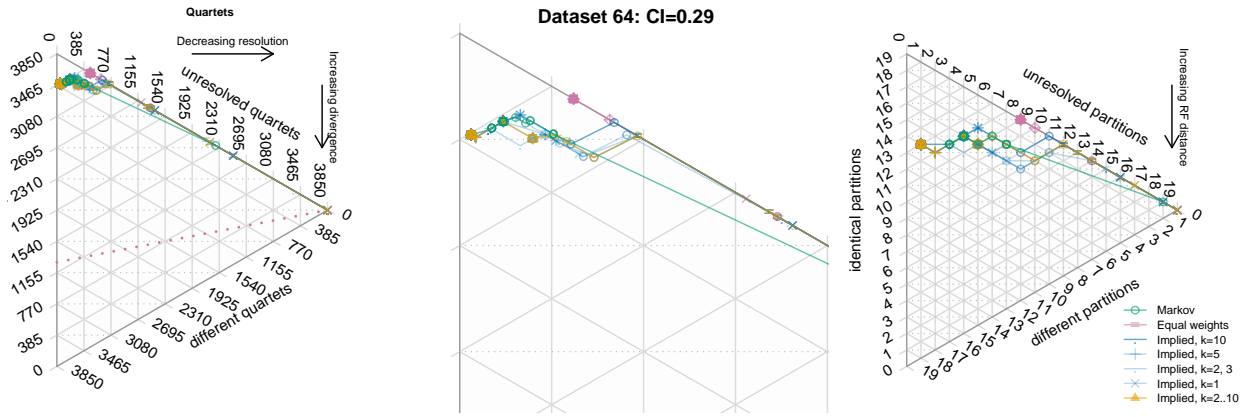
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```

Quartets

Dataset 65: CI=0.25

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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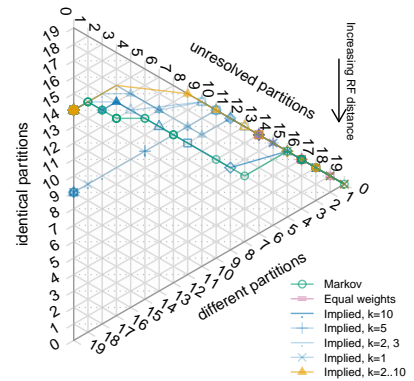
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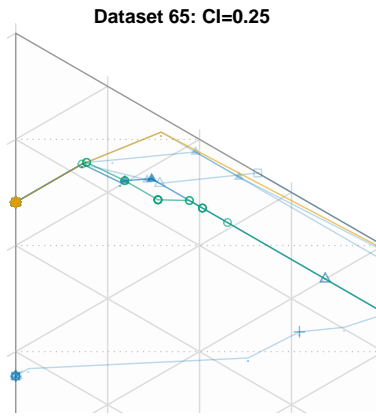
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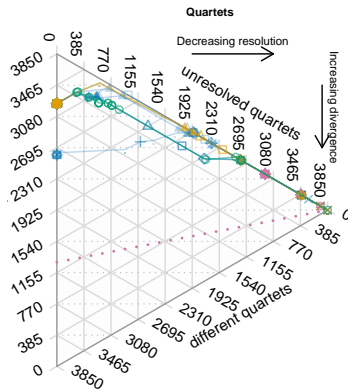
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```

Quartets

Decreasing resolution →

unresolved quartets

Increasing divergence ↓

different quartets

Dataset 66: 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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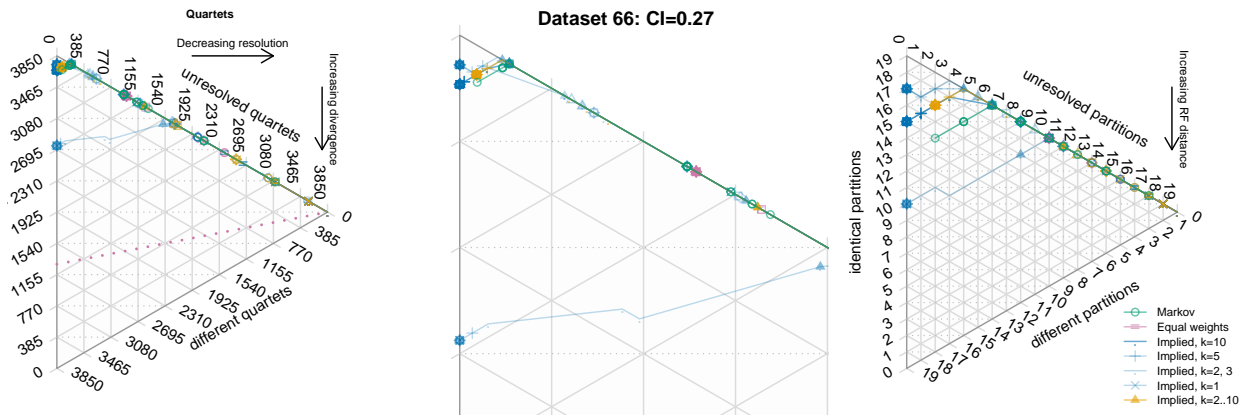
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Quartets

Decreasing resolution →

↓ Increasing divergence

unresolved quartets

different quartets

Dataset 67: CI=0.26

identical partitions

unresolved partitions

↓ Increasing RF distance

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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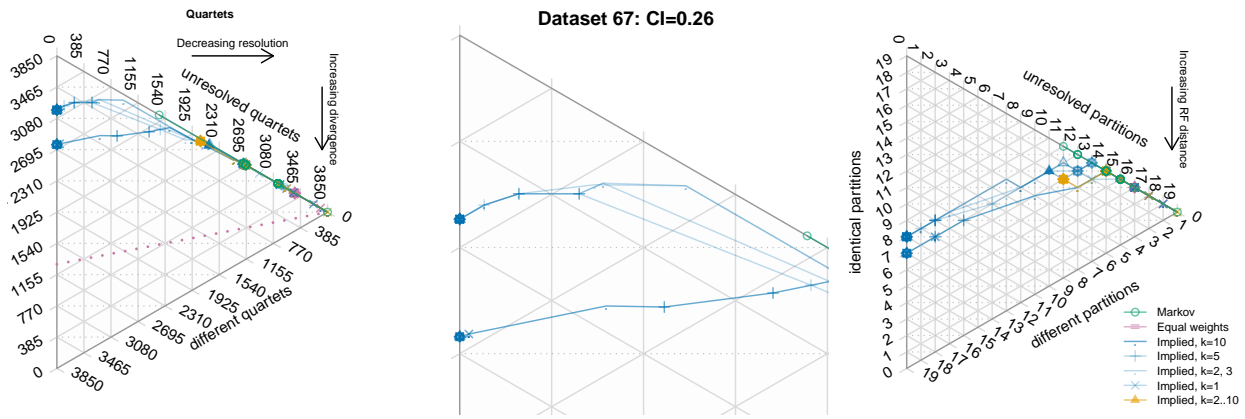
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Quartets

Dataset 68: CI=0.31

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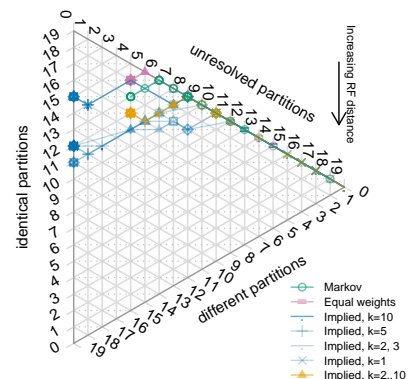
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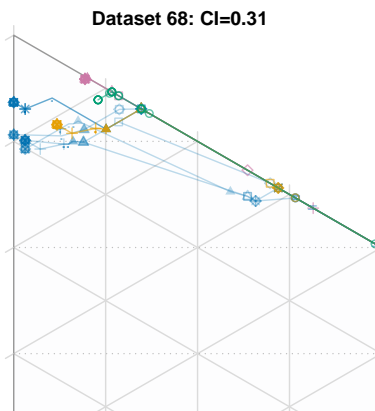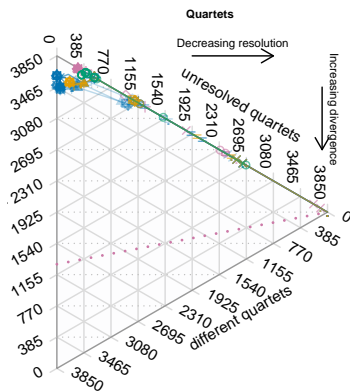
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Quartets

Decreasing resolution →

Dataset 69: CI=0.27

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

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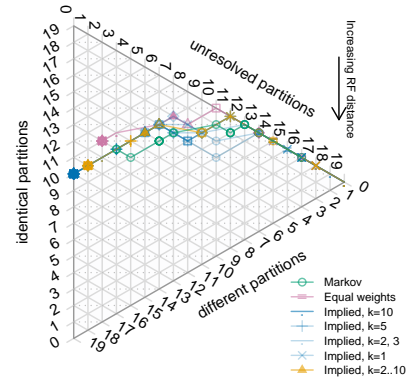
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```
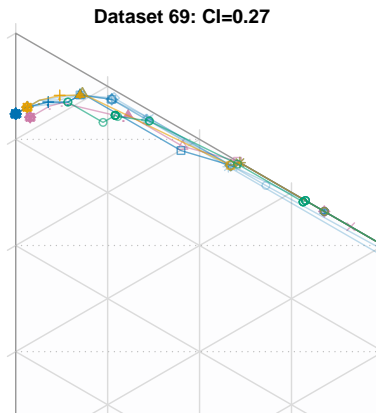
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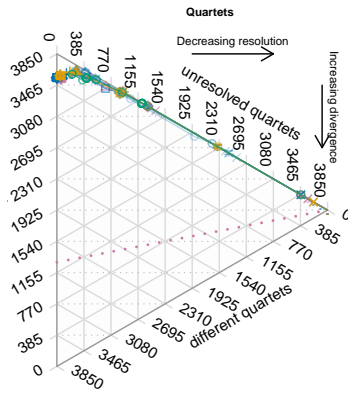
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Quartets Decreasing resolution → Increasing divergence

Dataset 70: CI=0.27

Increasing RF distance

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

0.9 Trees 71–80

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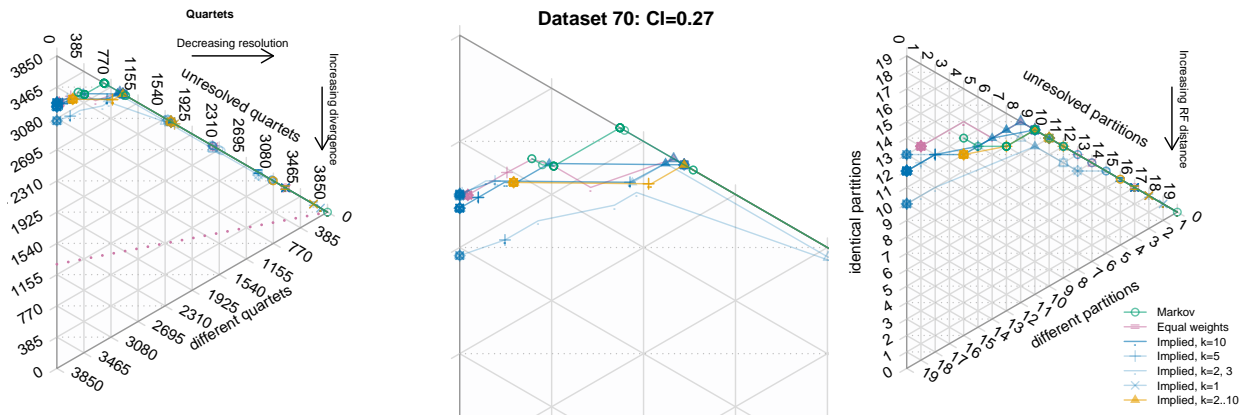
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```

Quartets

Decreasing resolution →

unresolved quartets

Increasing divergence

different quarters

Dataset 71: CI=0.27

identical partitions

unresolved partitions

Increasing RF distance

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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```

Quartets

Decreasing resolution →

Increasing divergence

unresolved quartets

different quartets

Dataset 72: CI=0.29

identical partitions

Increasing RF distance

unresolved partitions

different partitions

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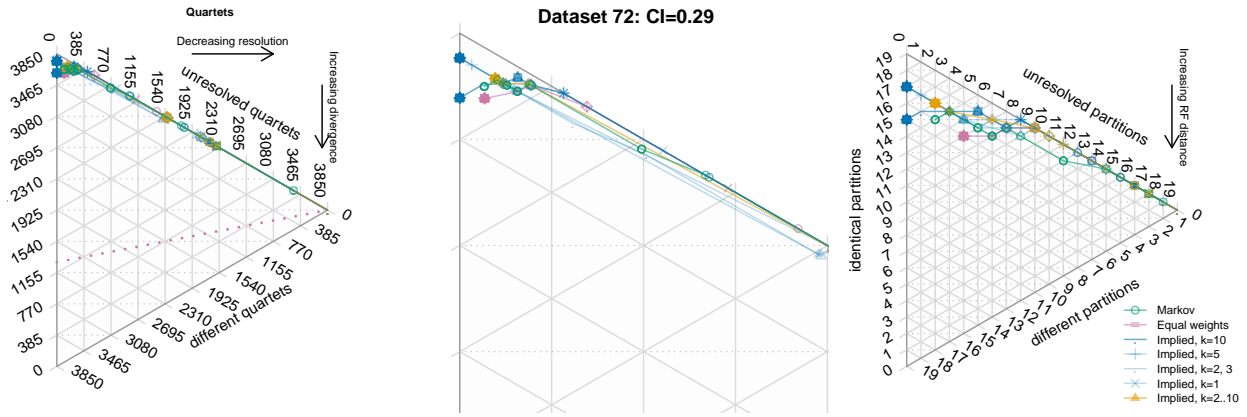- ▲— Implied, k=2..10

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```

Quartets

Decreasing resolution →

unresolved quartets

↓ Increasing divergence

different quartets

Dataset 73: CI=0.28

unresolved partitions

↓ Increasing RF distance

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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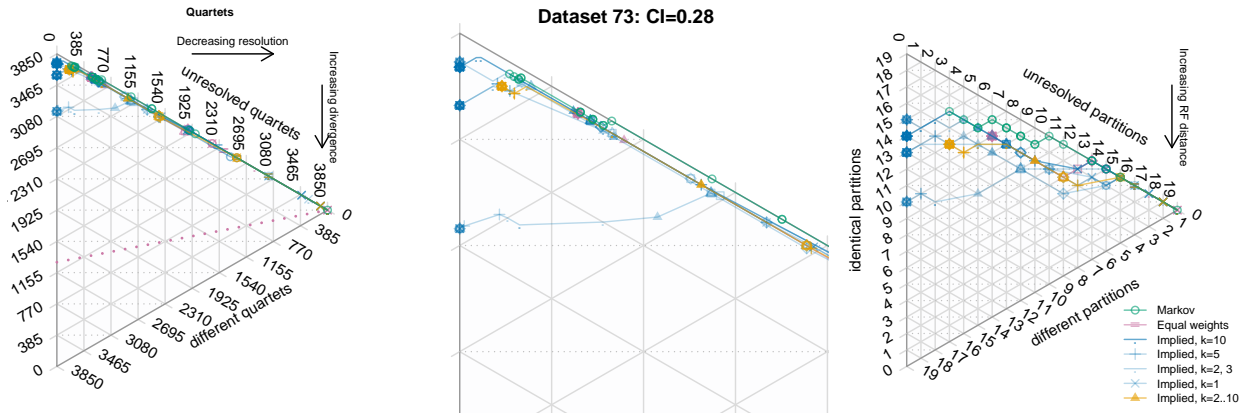
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Quartets

Dataset 74: CI=0.28

Decreasing resolution

Increasing divergence

unresolved 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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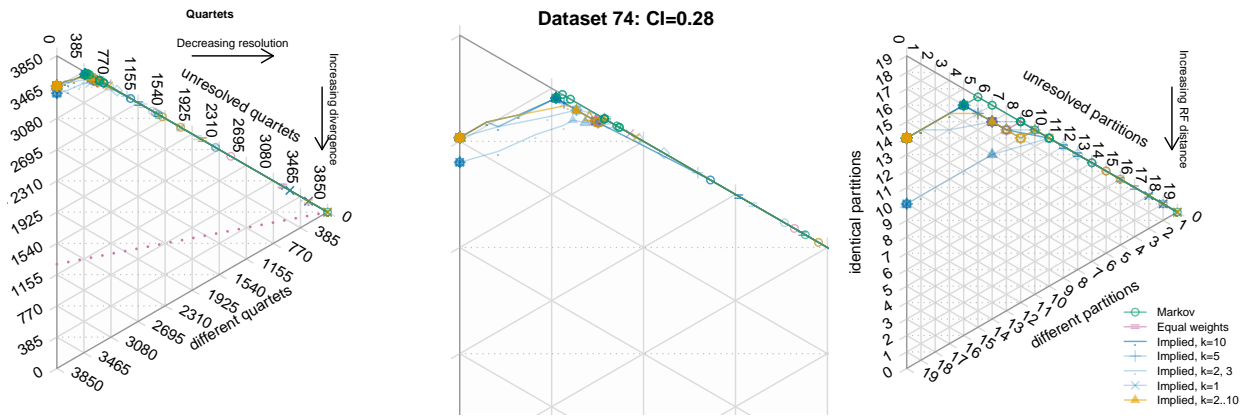
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Quartets

Dataset 75: CI=0.24

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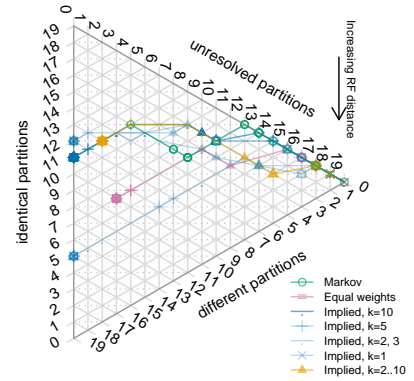
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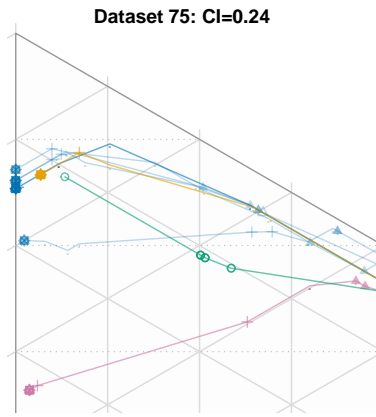
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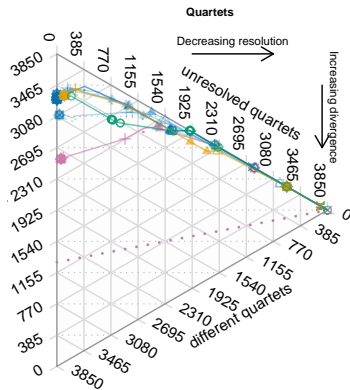
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Quartets

Dataset 76: CI=0.26

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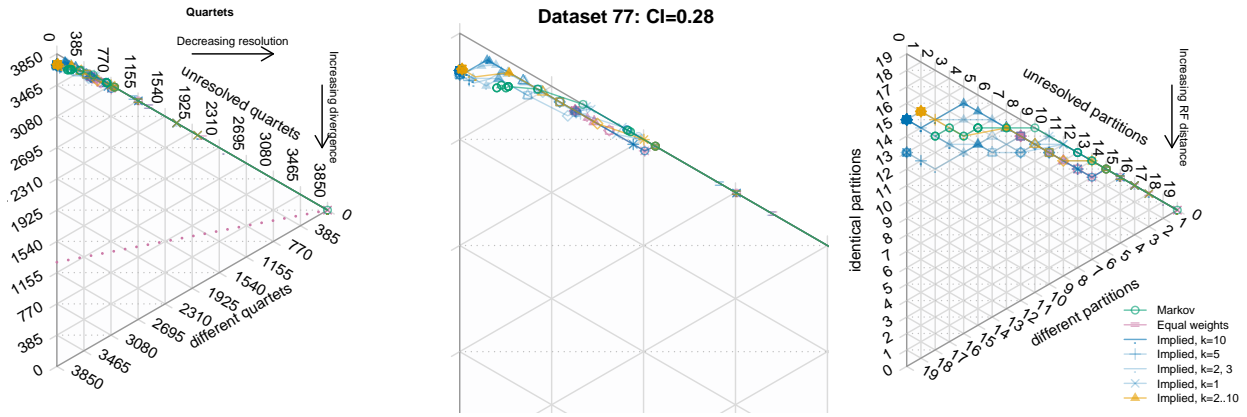
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```

Quartets

Decreasing resolution →

Increasing divergence

unresolved quartets

different quartets

Dataset 77: CI=0.28

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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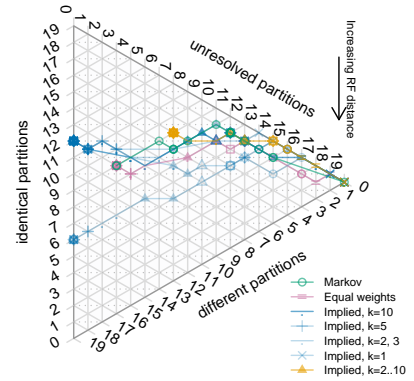
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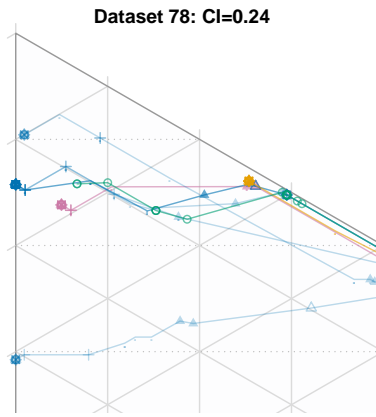
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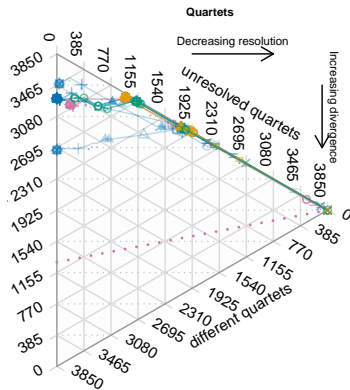
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Quartets

Decreasing resolution →

unresolved quartets

↓ Increasing divergence

different quartets

Dataset 78: CI=0.24

identical partitions

unresolved partitions

↓ Increasing RF distance

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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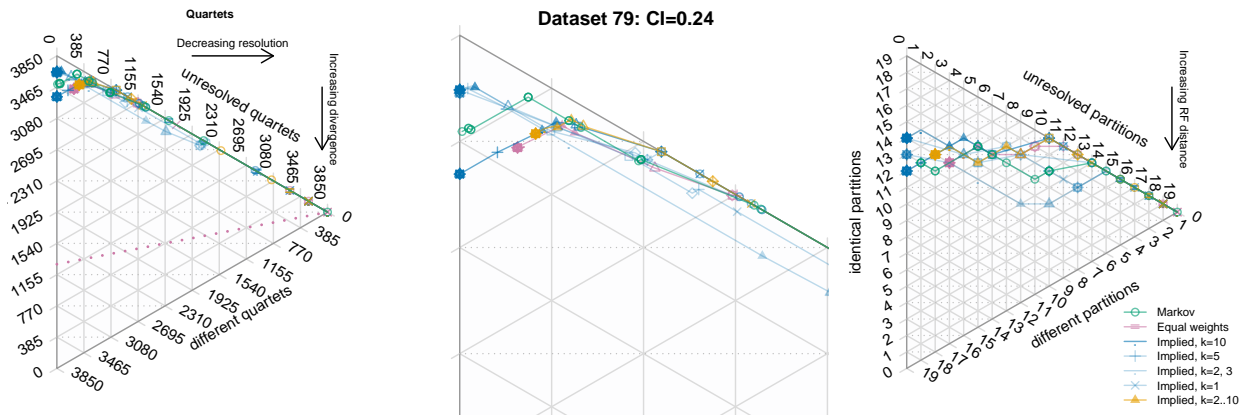
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Quartets

Dataset 79: CI=0.24

Decreasing resolution

Increasing divergence

unresolved 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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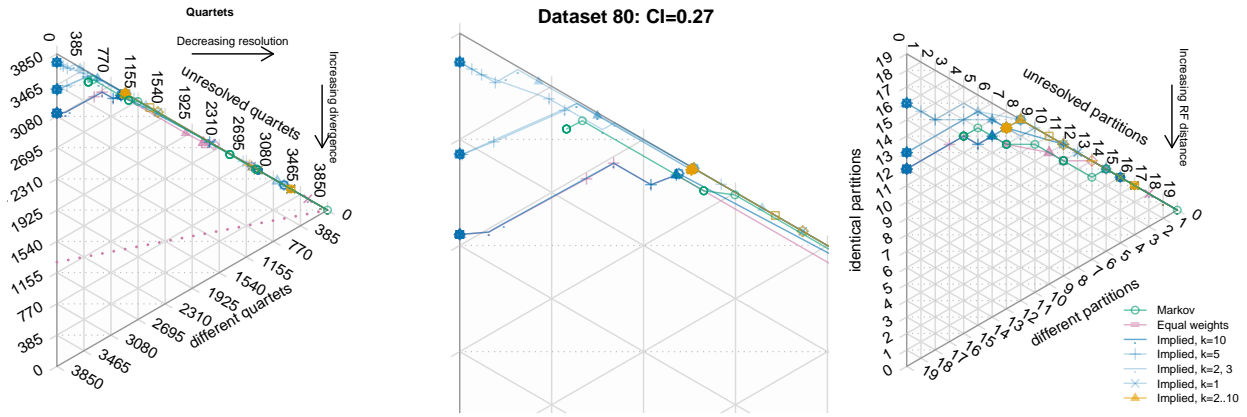
Quartets

Dataset 80: CI=0.27

Legend:
- 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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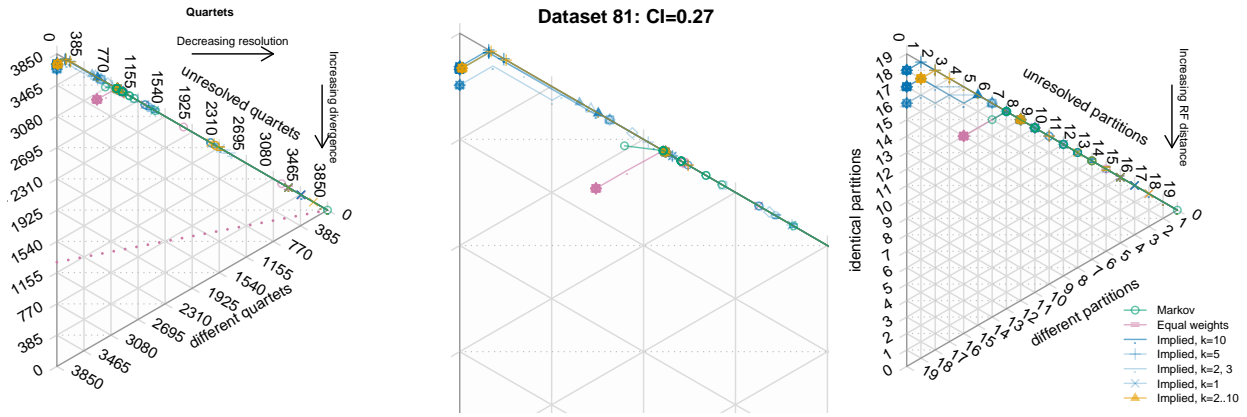
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Quartets   **Dataset 81: CI=0.27**

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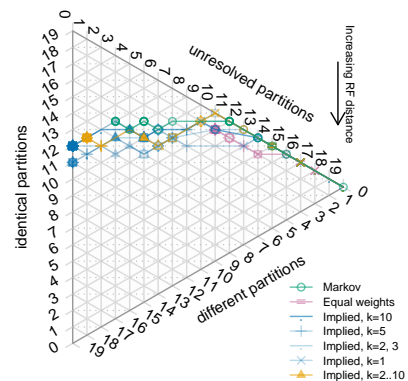
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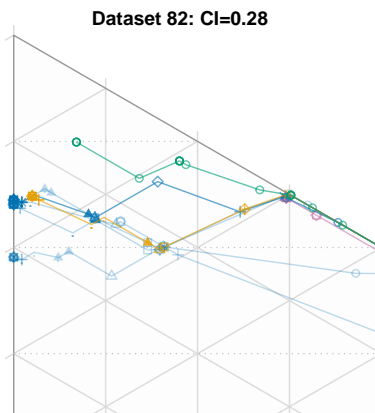
Quartets

Decreasing resolution →

Dataset 82: CI=0.28

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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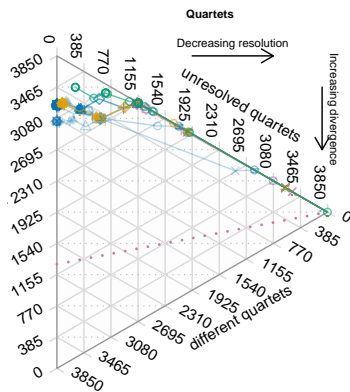
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Quartets

Dataset 83: CI=0.25

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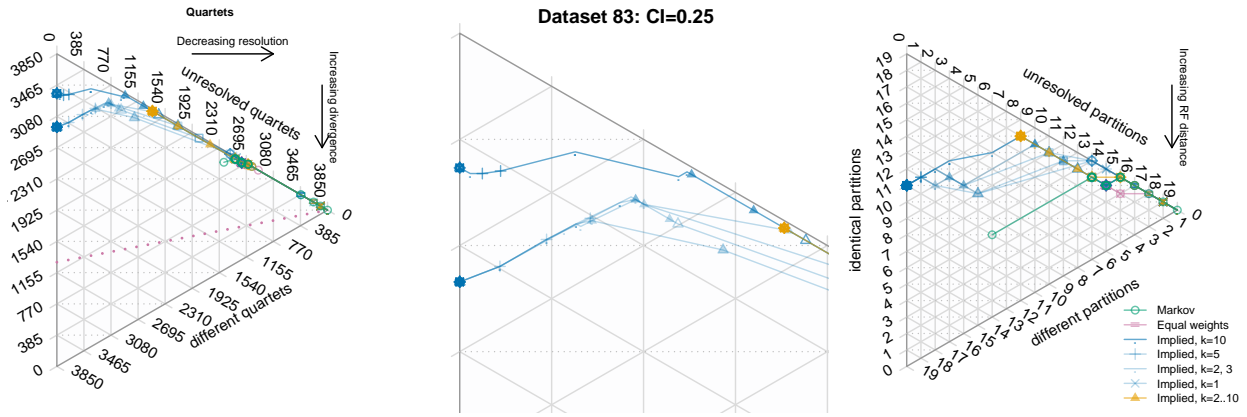
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```

Quartets

Dataset 84: CI=0.24

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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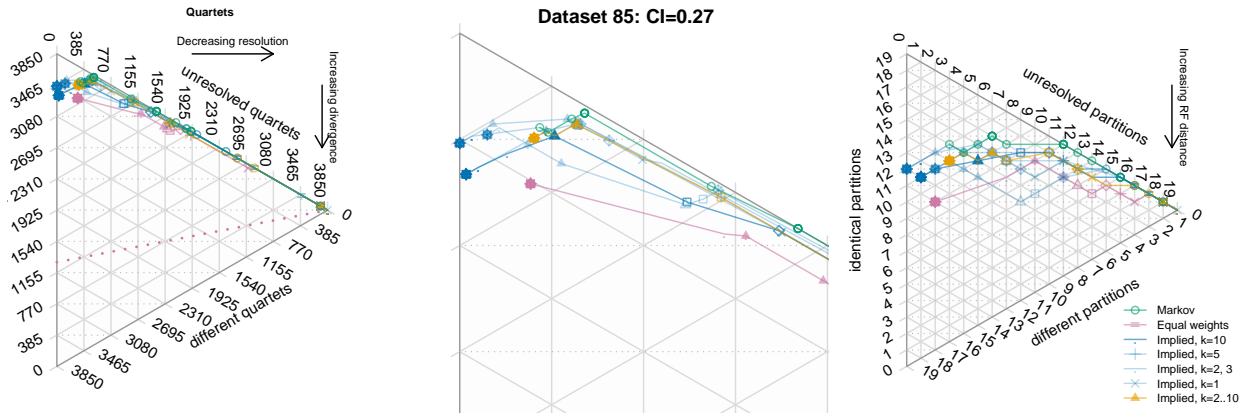
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Quartets

Dataset 85: CI=0.27

Decreasing resolution

Increasing divergence

unresolved 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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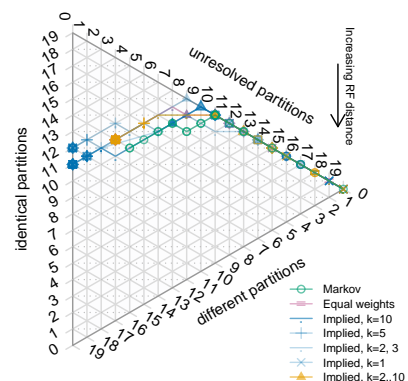
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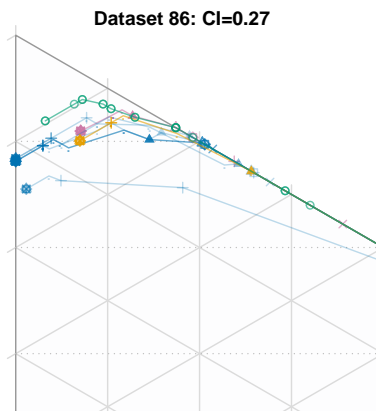
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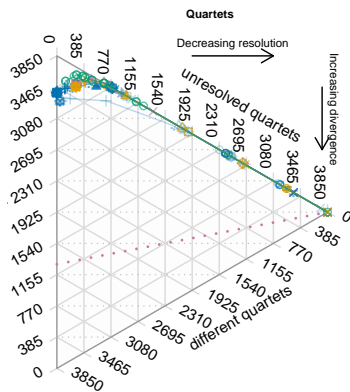
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Quartets   **Dataset 86: CI=0.27**

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```
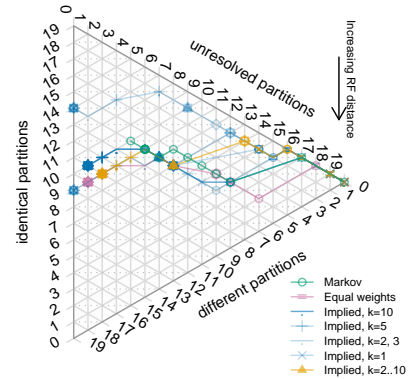
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```
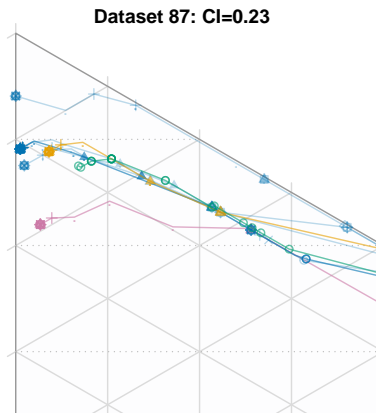
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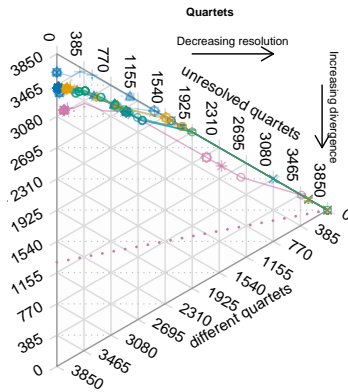
Quartets

Decreasing resolution →

unresolved quartets

Increasing divergence

different quartets

Dataset 87: CI=0.23

unresolved partitions

Increasing RF distance

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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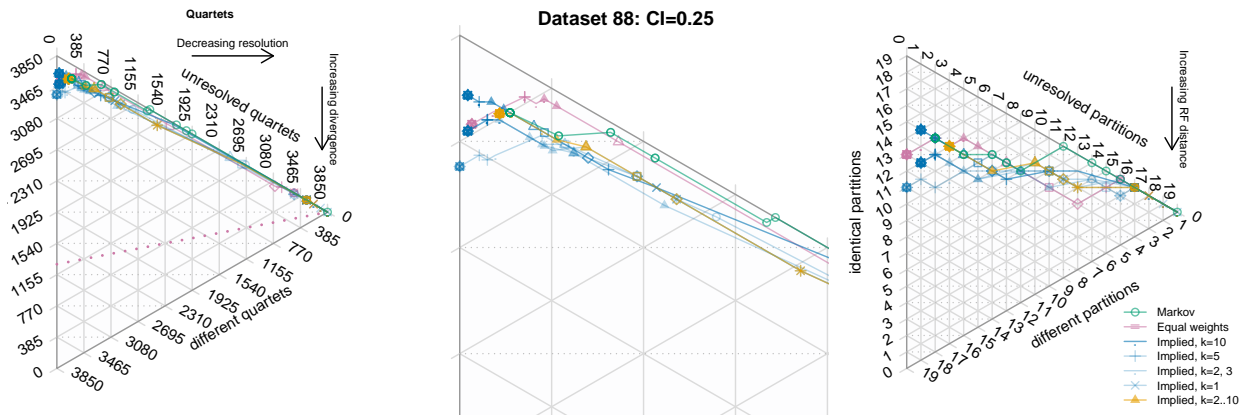
Quartets

Dataset 88: CI=0.25

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

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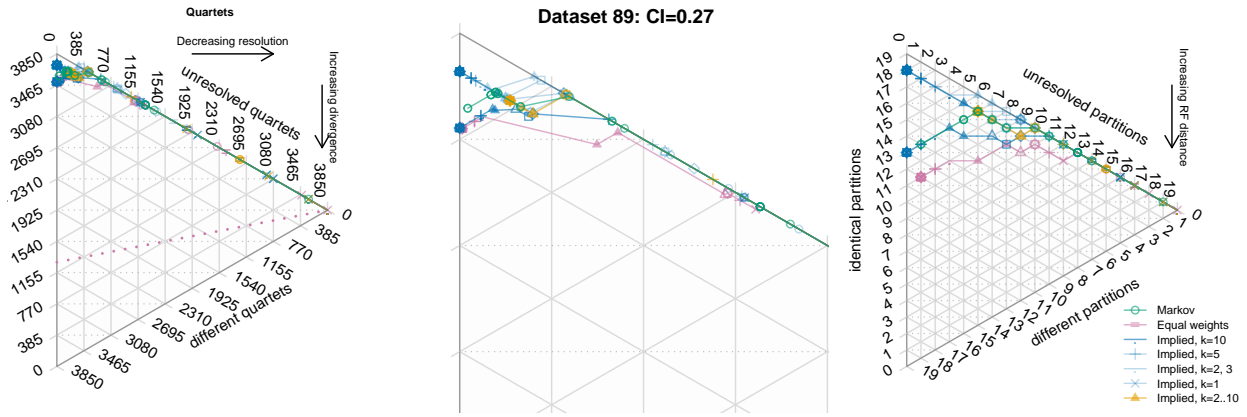**Quartets**

Dataset 89: CI=0.27

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Quartets

Dataset 90: CI=0.26

0.11   Trees 91–100

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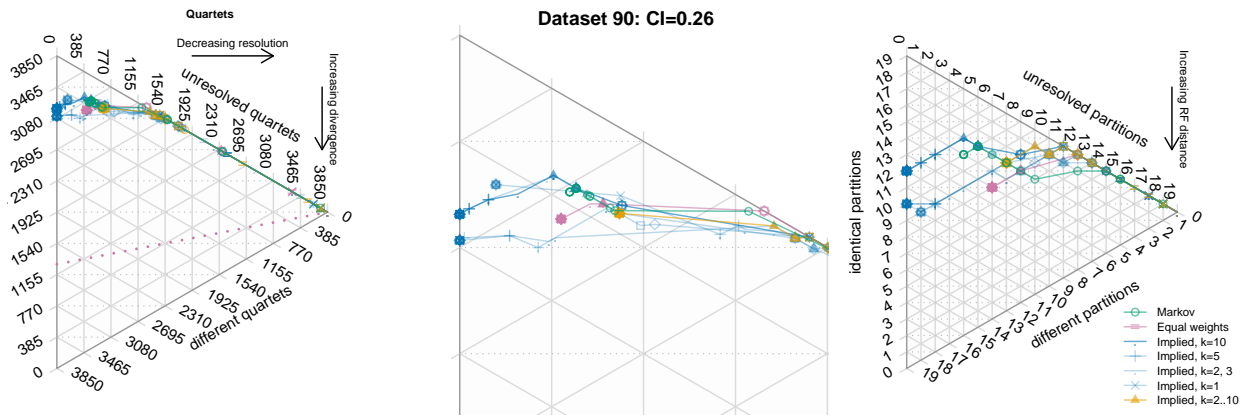
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Quartets

Dataset 91: CI=0.26

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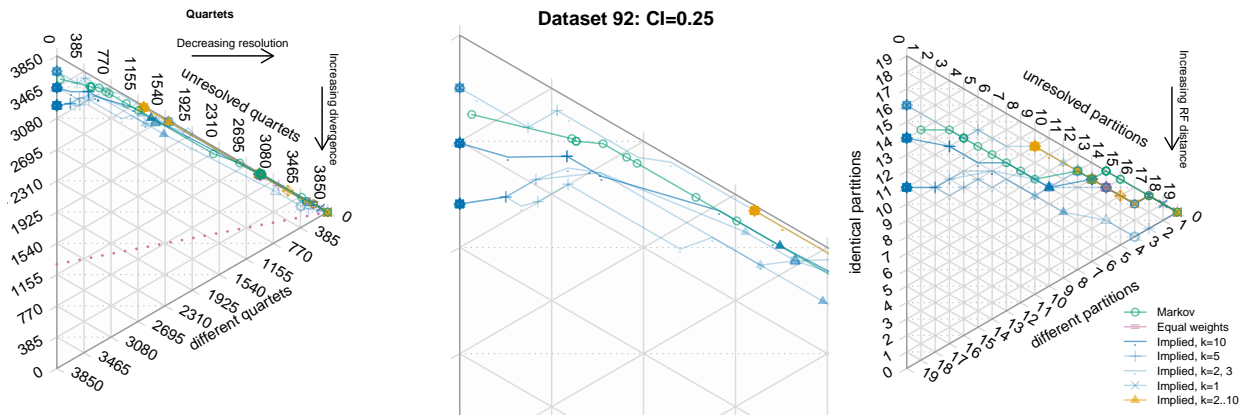
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```

Quartets

Dataset 92: CI=0.25

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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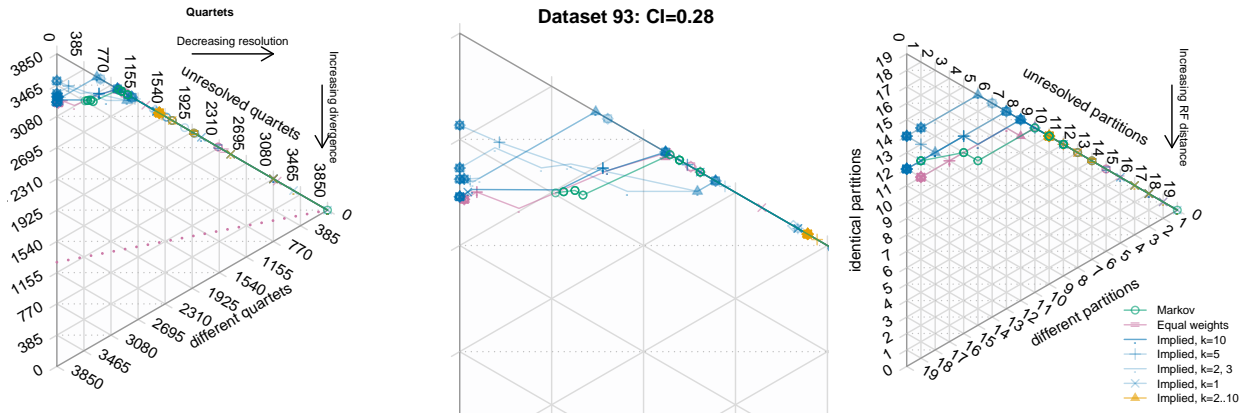
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Quartets

Dataset 93: CI=0.28

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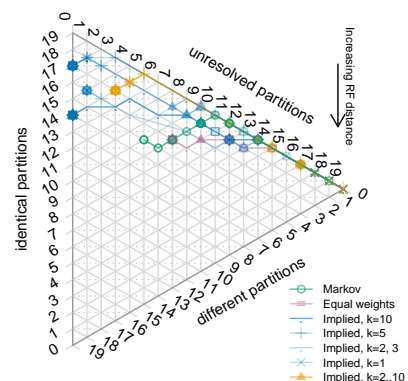
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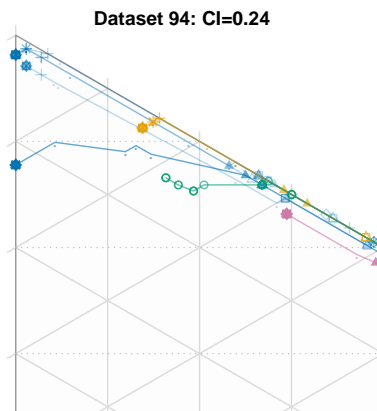
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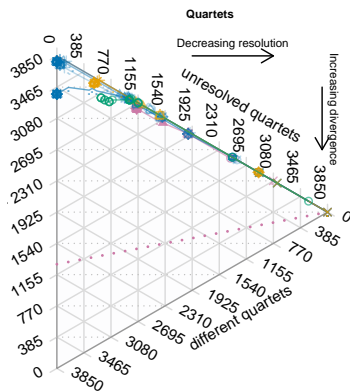
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Quartets

Decreasing resolution

Increasing divergence

unresolved quartets

different quartets

Dataset 94: CI=0.24

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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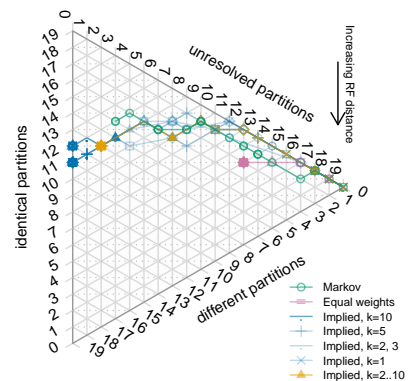
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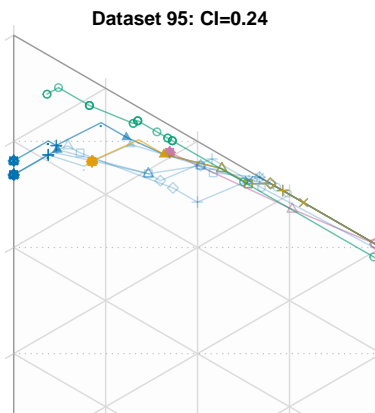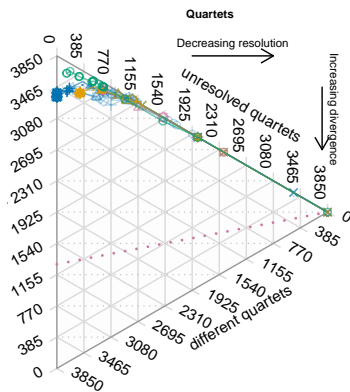
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Quartets | Dataset 95: CI=0.24

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Quartets

Dataset 96: CI=0.26

- ○ Markov
- ■ Equal weights
- ┬ Implied, k=10
- ┼ Implied, k=5
- ┴ Implied, k=2, 3
- ✕ Implied, k=1
- ▲ Implied, k=2..10

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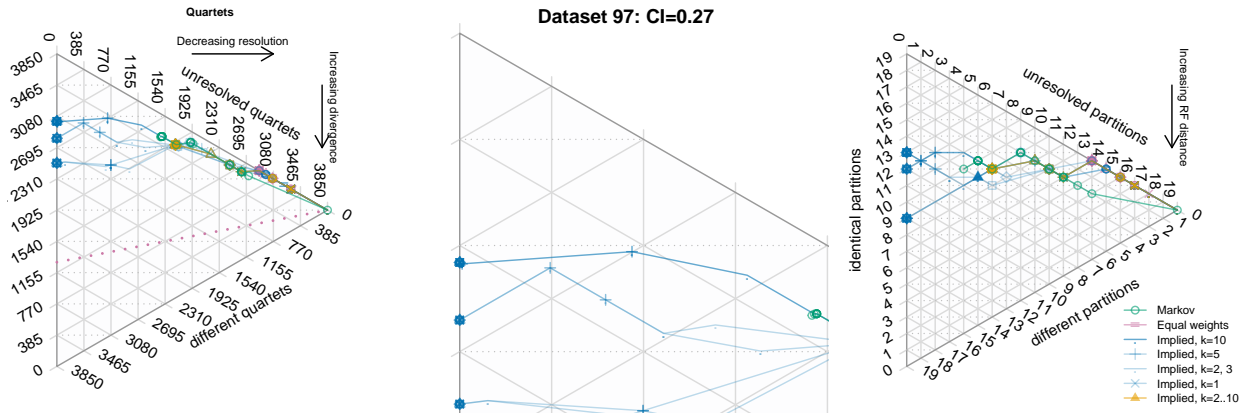
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Quartets

Decreasing resolution →

↓ Increasing divergence

Dataset 97: CI=0.27

↓ Increasing RF distance

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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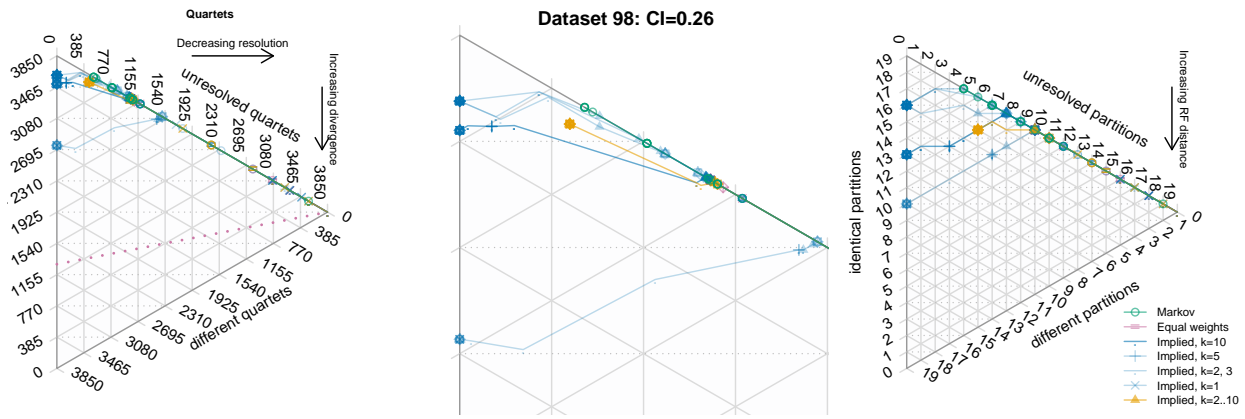
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Quartets

Decreasing resolution

Dataset 98: CI=0.26

Increasing RF distance

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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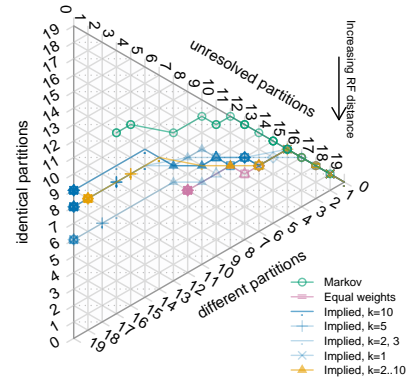
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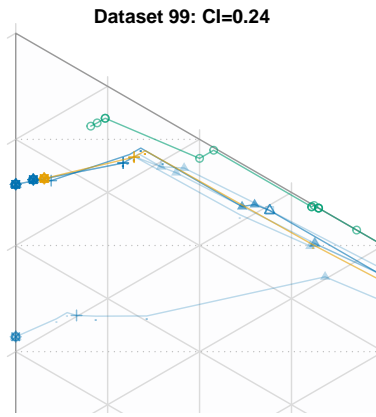
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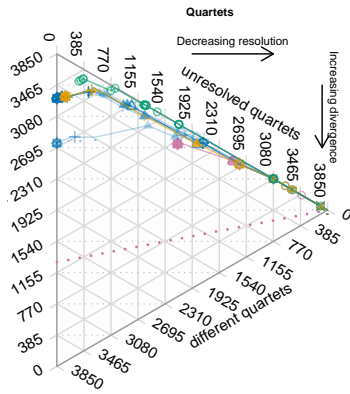
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Quartets

Dataset 99: CI=0.24

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

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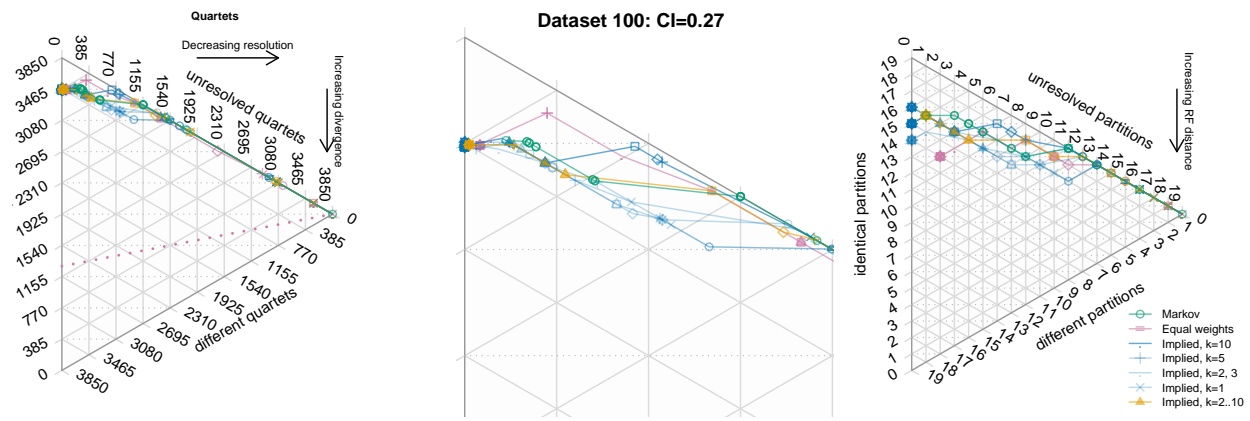
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Quartets

Dataset 100: CI=0.27

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)