ADD motifs across all 20 moment directions (with exact m2/m3 check)

dir00: +m2

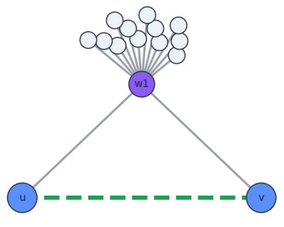
connect two isolated/low-degree nodes




```
m2 0.0000->1.0000  Δ+1.0000
m3 0.0000->0.0000  Δ+0.0000   cos 1.00
```

dir01: +m2 strong, +m3 weak

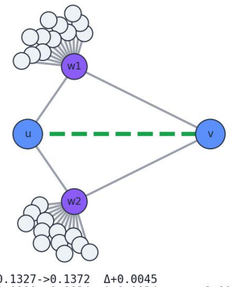
high-degree common neighbor wedge




```
m2 0.1333->0.1571  Δ+0.0238
m3 0.0000->0.0071  Δ+0.0071   cos 1.00
```

dir02: +m2, +m3

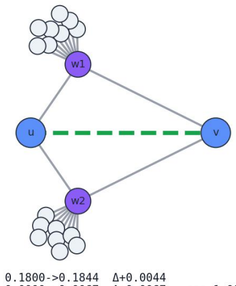
two high-degree common neighbors




```
m2 0.1327->0.1372  Δ+0.0045
m3 0.0000->0.0034  Δ+0.0034   cos 1.00
```

dir03: +m3 dominant, +m2

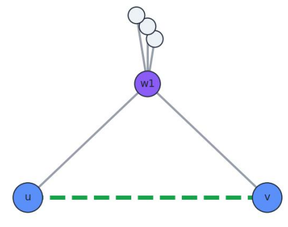
closure with +m3 dominant




```
m2 0.1800->0.1844  Δ+0.0044
m3 0.0000->0.0067  Δ+0.0067   cos 1.00
```

dir04: +m3 very strong, +m2 slight

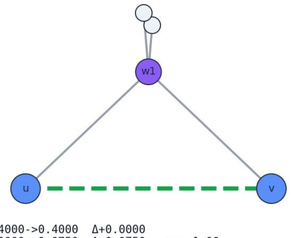
weighted closure, +m3 strong




```
m2 0.3333->0.3500  Δ+0.0167
m3 0.0000->0.0500  Δ+0.0500   cos 1.00
```

dir05: pure +m3

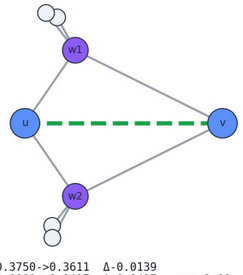
pure +m3 wedge closure




```
m2 0.4000->0.4000  Δ+0.0000
m3 0.0000->0.0750  Δ+0.0750   cos 1.00
```

dir06: +m3 strong, -m2 slight

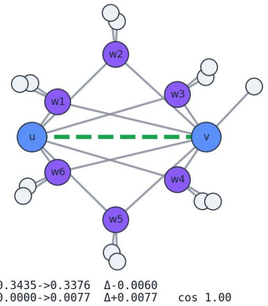
dense closure, m2 starts negative




```
m2 0.3750->0.3611  Δ-0.0139
m3 0.0000->0.0417  Δ+0.0417   cos 1.00
```

dir07: -m2,+m3 balanced

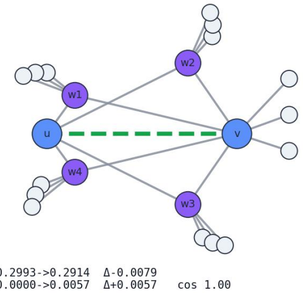
high-degree chord closing many wedges




```
m2 0.3435->0.3376  Δ-0.0060
m3 0.0000->0.0077  Δ+0.0077   cos 1.00
```

dir08: -m2 dominant, +m3

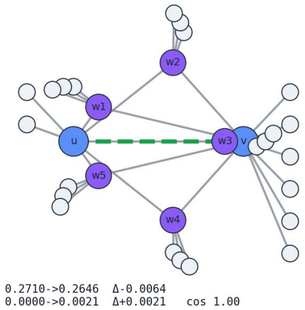
hub-ish closure, -m2 dominates




```
m2 0.2993->0.2914  Δ-0.0079
m3 0.0000->0.0057  Δ+0.0057   cos 1.00
```

dir09: -m2 strong, +m3 weak

mostly -m2 with weak closure




```
m2 0.2710->0.2646  Δ-0.0064
m3 0.0000->0.0021  Δ+0.0021   cos 1.00
```

dir10: -m2

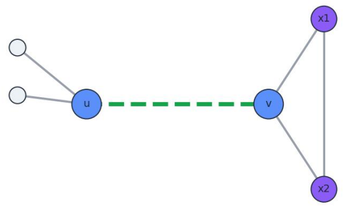
open shortcut between degree-1 stubs




```
m2 1.0000->0.6250  Δ-0.3750
m3 0.0000->0.0000  Δ+0.0000   cos 1.00
```

dir11: -m2 strong, -m3 weak

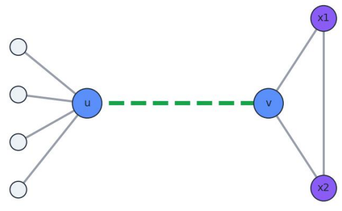
shortcut dilutes small triangle core




```
m2 0.5833->0.4537  Δ-0.1296
m3 0.1250->0.0833  Δ-0.0417   cos 1.00
```

dir12: -m2, -m3

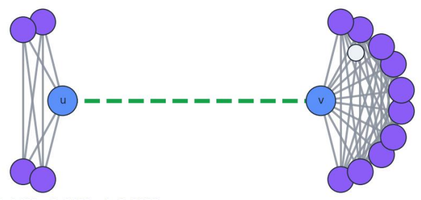
bridge to triangle core, -m2/-m3




```
m2 0.4375->0.3625  Δ-0.0750
m3 0.0938->0.0625  Δ-0.0312   cos 0.97
```

dir13: -m3 dominant, -m2

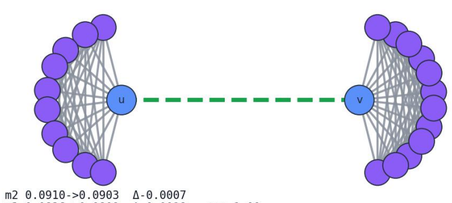
bridge triangle-rich endpoints




```
m2 0.1479->0.1422  Δ-0.0057
m3 0.1119->0.1041  Δ-0.0078   cos 1.00
```

dir14: -m3 very strong, -m2 slight

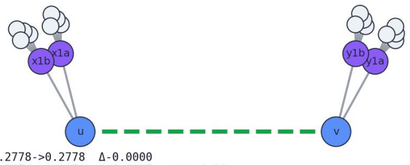
dense endpoint triangles diluted




```
m2 0.0910->0.0903  Δ-0.0007
m3 0.0826->0.0809  Δ-0.0018   cos 1.00
```

dir15: pure -m3

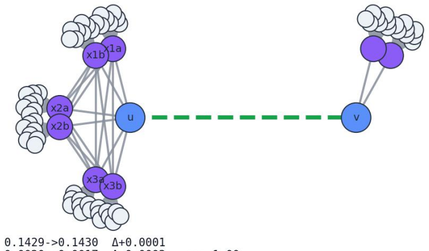
pure -m3 dilution, m2 neutral




```
m2 0.2778->0.2778  Δ-0.0000
m3 0.0076->0.0051  Δ-0.0025   cos 1.00
```

dir16: -m3 strong, +m2 slight

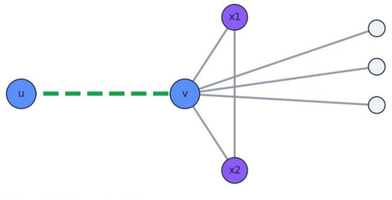
near -m3 with tiny +m2




```
m2 0.1429->0.1430  Δ+0.0001
m3 0.0020->0.0017  Δ-0.0003   cos 1.00
```

dir17: +m2,-m3 balanced

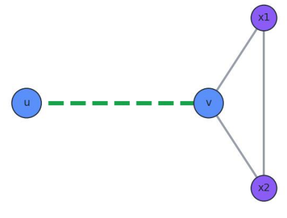
leaf-to-core: +m2 and -m3




```
m2 0.3000->0.3095  Δ+0.0095
m3 0.0429->0.0357  Δ-0.0071   cos 0.96
```

dir18: +m2 dominant, -m3

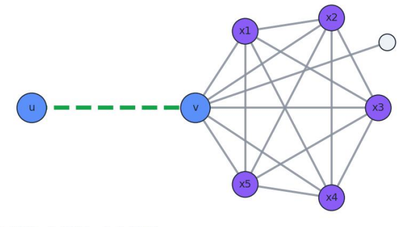
low-degree bridge dilutes core




```
m2 0.3750->0.4583  Δ+0.0833
m3 0.1875->0.1250  Δ-0.0625   cos 1.00
```

dir19: +m2 strong, -m3 weak

mostly +m2, weak -m3




```
m2 0.1833->0.2071  Δ+0.0238
m3 0.1100->0.1029  Δ-0.0071   cos 1.00
```

Green dashed edge = added edge. Purple = triangle nodes created/diluted. Yellow = low-degree side. cos = raw Δ(m2,m3) vs target direction.