## Results of MCER-$k$ for instances TA01-TA07

| Instance | | | | Optimal Solution | | Performance metrics | | | | | |
| Name | $n$ | $m$ | $k$ | Selected Ellipses | Income | CLS size $|S_k|$ | # E3P subproblems | Backtracking Tree # nodes | #sol leaves | CPU Time (s) CLS-MCER | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TA01 | | | 1 | 3 | 52.4 | 470 | | 10,026 | 4830 | 43.26 | 43.27 |
| TA02 | | | 2 | 1,3 | 102.3 | 3015 | | 30,072 | 11,475 | 43.21 | 43.23 |
| TA03 | | | 3 | 1,3,5 | 135.2 | 755 | | 1,259,300 | 24,958 | 43.28 | 46.97 |
| TA04 | 100 | 7 | 4 | 1,3,5,7 | 157.1 | 721 | 146,116 | 57,430,353 | 74,709 | 43.30 | 462.09 |
| TA05 | | | 5 | - | - | 1059 | | - | - | - | - |
| TA06 | | | 6 | - | - | 973 | | - | - | - | - |
| TA07 | | | 7 | - | - | 3132 | | - | - | - | - |