

Results for instances from collection
Dispersion-QKP with strategy wgeo

File dispersion-qkp-wgeo_0100_005.txt

Property of graph	Value
Nodes (n)	100
Density (Δ)	5.0 %
Edges (m)	251

		Deviation from best OFV (%)							Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly		QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	38,140.3	0.00	5.03	10.27	0.00	0.00	0.00		0.00	0.0	0.2	0.1	0.0	0.0
5.0	67,460.6	2.02	3.08	2.02	0.00	0.00	0.00		0.00	0.1	0.2	0.1	0.1	1.0
10.0	119,872.3	5.02	2.50	0.86	0.00	0.00	0.00		0.00	0.1	0.2	0.2	0.2	0.0
25.0	264,565.2	0.10	0.12	1.40	0.00	0.00	0.00		0.00	0.1	0.4	0.2	0.1	2.0
50.0	471,375.7	0.47	0.47	0.35	0.00	0.00	0.00		0.00	0.2	0.5	0.2	0.0	0.0
75.0	621,400.2	0.00	0.41	0.00	0.00	0.00	0.00		0.00	0.3	0.6	0.2	0.0	1.0
90.0	687,642.2	0.08	0.08	0.00	0.00	0.00	0.00		0.00	0.3	0.6	0.2	0.0	0.0
95.0	701,748.5	0.32	0.00	0.00	0.00	0.00	0.00		0.00	0.3	0.6	0.1	0.0	0.0
Avg		1.00	1.46	1.86	0.00	0.00	0.00		0.00	0.2	0.4	0.2	0.1	0.5
Min		0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.0	0.2	0.1	0.0	0.0
Max		5.02	5.03	10.27	0.00	0.00	0.00		0.00	0.3	0.6	0.2	0.2	2.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	35
Running time in seconds for writing input file (t^{write})	0.3
Running time in seconds for executing parametric cut procedure (t^{cut})	0.1
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_0100_010.txt

Property of graph	Value
Nodes (n)	100
Density (Δ)	10.0 %
Edges (m)	471

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	57,117.0	1.35	0.00	6.30	0.00	0.00	0.00	0.00	0.0	0.2	0.1	0.1	1.0
5.0	106,422.9	0.00	1.53	2.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	0.2	0.0
10.0	205,559.9	0.59	0.11	0.11	0.00	0.00	0.00	0.00	0.1	0.2	0.2	0.1	1.0
25.0	470,964.6	0.00	0.37	0.58	0.00	0.00	0.00	0.00	0.1	0.3	0.4	0.1	1.0
50.0	906,817.7	0.37	0.00	0.19	0.00	0.00	0.00	0.00	0.2	0.5	0.3	0.4	2.0
75.0	1,290,738.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.2	0.1	1.0
90.0	1,477,953.3	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.2	0.1	1.0
95.0	1,526,199.7	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.2	0.0	0.0
Avg		0.38	0.25	1.15	0.00	0.00	0.00	0.00	0.2	0.4	0.2	0.1	0.9
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.2	0.1	0.0	0.0
Max		1.35	1.53	6.30	0.00	0.00	0.00	0.00	0.3	0.6	0.4	0.4	2.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	26
Running time in seconds for writing input file (t^{write})	0.3
Running time in seconds for executing parametric cut procedure (t^{cut})	0.1
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_0100_025.txt

Property of graph	Value
Nodes (n)	100
Density (Δ)	25.0 %
Edges (m)	1,226

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	123,713.2	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.0	0.2	0.2	0.2	1.0
5.0	245,784.7	1.02	0.76	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	0.4	2.0
10.0	477,217.8	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.1	0.2	0.2	0.7	1.0
25.0	1,146,784.5	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.4	0.2	0.9	9.0
50.0	2,164,788.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.4	0.2	0.1	1.0
75.0	3,051,221.7	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.2	0.1	1.0
90.0	3,520,123.3	0.23	0.35	0.01	0.00	0.00	0.00	0.00	0.3	0.6	0.2	0.4	4.0
95.0	3,662,096.9	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.3	0.7	0.1	0.1	0.0
Avg		0.39	0.25	0.16	0.00	0.00	0.00	0.00	0.2	0.4	0.2	0.4	2.4
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.2	0.1	0.1	0.0
Max		1.02	0.89	0.89	0.00	0.00	0.00	0.00	0.3	0.7	0.2	0.9	9.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	17
Running time in seconds for writing input file (t^{write})	0.3
Running time in seconds for executing parametric cut procedure (t^{cut})	0.1
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_0100_050.txt

Property of graph	Value
Nodes (n)	100
Density (Δ)	50.0 %
Edges (m)	2,492

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	255,249.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.2	0.2	0.5	1.0
5.0	448,743.8	4.28	0.39	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	0.6	4.0
10.0	810,400.3	1.20	0.17	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	5.1	12.0
25.0	1,980,919.5	0.46	0.10	0.10	0.00	0.00	0.00	0.00	0.2	0.4	0.5	3.6	15.0
50.0	3,949,444.1	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.5	0.2	1.2	6.0
75.0	5,810,921.5	1.16	0.25	0.00	0.00	0.00	0.00	0.00	0.3	0.5	0.2	0.7	5.0
90.0	6,802,356.0	0.75	0.56	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.2	0.9	13.0
95.0	7,105,637.9	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.1	0.6	3.0
Avg		1.11	0.18	0.01	0.00	0.00	0.00	0.00	0.2	0.4	0.2	1.6	7.4
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.2	0.1	0.5	1.0
Max		4.28	0.56	0.10	0.00	0.00	0.00	0.00	0.3	0.6	0.5	5.1	15.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	14
Running time in seconds for writing input file (t^{write})	0.3
Running time in seconds for executing parametric cut procedure (t^{cut})	0.1
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_0100_075.txt

Property of graph	Value
Nodes (n)	100
Density (Δ)	75.0 %
Edges (m)	3,684

γ	Best OFV	Deviation from best OFV (%)						Running time (s)					
		QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	352,111.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	0.7	2.0
5.0	673,237.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	0.4	3.0
10.0	1,278,185.2	1.93	0.70	0.01	0.00	0.00	0.00	0.00	0.1	0.2	0.2	1.9	19.0
25.0	3,092,915.6	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.4	0.2	1.1	8.0
50.0	6,073,147.4	0.72	0.23	0.00	0.00	0.00	0.00	0.00	0.2	0.4	0.2	1.4	4.0
75.0	8,589,661.3	0.44	0.13	0.01	0.00	0.00	0.00	0.00	0.3	0.5	0.2	3.3	27.0
90.0	9,990,593.6	0.17	0.17	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.2	2.0	7.0
95.0	10,451,536.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.2	0.4	3.0
Avg		0.42	0.15	0.00	0.00	0.00	0.00	0.00	0.2	0.4	0.2	1.4	9.1
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	0.4	2.0
Max		1.93	0.70	0.01	0.00	0.00	0.00	0.00	0.3	0.6	0.2	3.3	27.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	17
Running time in seconds for writing input file (t^{write})	0.4
Running time in seconds for executing parametric cut procedure (t^{cut})	0.1
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_0100_100.txt

Property of graph	Value
Nodes (n)	100
Density (Δ)	100.0 %
Edges (m)	4,950

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	529,986.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	1.3	3.0
5.0	1,040,809.6	2.79	2.66	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	1.5	8.0
10.0	1,891,834.7	0.45	0.14	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	4.3	88.0
25.0	4,289,387.5	0.98	0.59	0.00	0.00	0.00	0.00	0.00	0.2	0.4	0.2	10.2	48.0
50.0	8,218,566.5	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.5	0.2	4.6	18.0
75.0	12,029,434.1	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.3	0.5	0.2	1.6	11.0
90.0	14,039,399.1	0.73	0.73	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.2	4.5	35.0
95.0	14,651,459.4	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.2	1.4	12.0
Avg		0.71	0.52	0.00	0.00	0.00	0.00	0.00	0.2	0.4	0.2	3.7	27.9
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	1.3	3.0
Max		2.79	2.66	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.2	10.2	88.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	15
Running time in seconds for writing input file (t^{write})	0.4
Running time in seconds for executing parametric cut procedure (t^{cut})	0.1
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_0200_005.txt

Property of graph	Value
Nodes (n)	200
Density (Δ)	5.0 %
Edges (m)	995

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	146,162.4	0.99	0.12	5.21	0.00	0.00	0.00	0.00	0.2	1.2	0.5	0.2	5.0
5.0	266,776.3	0.59	0.59	2.31	0.00	0.00	0.00	0.00	0.3	1.7	0.6	0.2	2.0
10.0	481,767.3	0.00	0.80	1.17	0.00	0.00	0.00	0.00	0.4	2.2	0.7	0.1	0.0
25.0	1,032,383.2	0.31	0.17	0.40	0.00	0.00	0.00	0.00	0.7	3.2	2.2	0.4	13.0
50.0	1,890,439.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.9	4.1	1.2	0.2	8.0
75.0	2,561,740.8	0.11	0.00	0.00	0.00	0.00	0.00	0.00	1.2	4.5	1.1	0.1	4.0
90.0	2,884,872.8	0.09	0.11	0.00	0.00	0.00	0.00	0.00	1.3	4.5	0.7	0.2	19.0
95.0	2,982,533.4	0.10	0.06	0.00	0.00	0.00	0.00	0.00	1.4	4.7	0.5	0.2	4.0
Avg		0.27	0.23	1.14	0.00	0.00	0.00	0.00	0.8	3.3	1.0	0.2	6.9
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	1.2	0.5	0.1	0.0
Max		0.99	0.80	5.21	0.00	0.00	0.00	0.00	1.4	4.7	2.2	0.4	19.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	35
Running time in seconds for writing input file (t^{write})	0.6
Running time in seconds for executing parametric cut procedure (t^{cut})	0.1
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_0200_010.txt

Property of graph	Value
Nodes (n)	200
Density (Δ)	10.0 %
Edges (m)	2,014

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	205,919.5	0.57	2.17	1.82	0.00	0.00	0.00	0.00	0.2	1.3	0.7	0.6	5.0
5.0	387,143.6	0.59	0.17	0.49	0.00	0.00	0.00	0.00	0.3	1.6	1.3	1.8	11.0
10.0	756,587.5	1.11	0.04	0.60	0.00	0.00	0.00	0.00	0.4	2.2	2.1	1.2	9.0
25.0	1,819,489.9	0.63	0.68	0.41	0.00	0.00	0.00	0.00	0.7	3.3	1.4	0.2	3.0
50.0	3,395,526.8	0.25	0.04	0.01	0.00	0.00	0.00	0.00	1.0	4.0	1.3	0.8	17.0
75.0	4,751,300.8	0.19	0.02	0.00	0.00	0.00	0.00	0.00	1.2	4.4	1.1	0.5	9.0
90.0	5,448,694.2	0.04	0.00	0.00	0.00	0.00	0.00	0.00	1.4	4.4	0.7	0.5	21.0
95.0	5,645,401.4	0.02	0.02	0.00	0.00	0.00	0.00	0.00	1.4	4.7	0.5	0.4	9.0
Avg		0.43	0.39	0.42	0.00	0.00	0.00	0.00	0.8	3.2	1.1	0.7	10.5
Min		0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.2	1.3	0.5	0.2	3.0
Max		1.11	2.17	1.82	0.00	0.00	0.00	0.00	1.4	4.7	2.1	1.8	21.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	33
Running time in seconds for writing input file (t^{write})	0.7
Running time in seconds for executing parametric cut procedure (t^{cut})	0.1
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_0200_025.txt

Property of graph	Value
Nodes (n)	200
Density (Δ)	25.0 %
Edges (m)	4,912

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	423,393.2	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.2	1.3	0.5	2.3	10.0
5.0	816,435.9	0.56	0.60	0.39	0.00	0.00	0.00	0.00	0.3	1.7	1.1	1.4	19.0
10.0	1,585,981.8	0.73	0.31	0.22	0.00	0.00	0.00	0.00	0.4	2.3	3.7	8.5	40.0
25.0	3,971,396.9	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.7	3.2	1.8	2.6	22.0
50.0	7,732,914.9	0.11	0.11	0.00	0.00	0.00	0.00	0.00	1.0	3.9	1.7	1.8	9.0
75.0	11,273,958.2	0.24	0.00	0.00	0.00	0.00	0.00	0.00	1.2	4.4	1.1	1.2	13.0
90.0	13,196,202.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.3	4.4	0.6	0.5	7.0
95.0	13,741,499.1	0.35	0.25	0.00	0.00	0.00	0.00	0.00	1.4	4.5	0.6	1.0	32.0
Avg		0.35	0.16	0.08	0.00	0.00	0.00	0.00	0.8	3.2	1.4	2.4	19.0
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	1.3	0.5	0.5	7.0
Max		0.73	0.60	0.39	0.00	0.00	0.00	0.00	1.4	4.5	3.7	8.5	40.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	17
Running time in seconds for writing input file (t^{write})	0.7
Running time in seconds for executing parametric cut procedure (t^{cut})	0.1
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_0200_050.txt

Property of graph	Value
Nodes (n)	200
Density (Δ)	50.0 %
Edges (m)	9,910

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	776,259.1	3.25	0.00	0.40	0.00	0.00	0.00	0.00	0.2	1.3	0.6	5.2	22.0
5.0	1,542,504.5	1.09	0.32	0.07	0.00	0.00	0.00	0.00	0.3	1.7	0.6	6.1	55.0
10.0	3,021,738.5	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.5	2.3	1.1	10.4	98.0
25.0	7,397,481.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	3.2	1.7	8.9	60.0
50.0	14,569,299.9	0.00	0.00	0.00	0.00	0.00	0.09	0.00	1.0	4.0	7.5	19.8	120.0
75.0	21,775,525.8	0.14	0.00	0.00	0.00	0.00	0.00	0.00	1.2	4.3	0.9	9.7	120.0
90.0	25,605,308.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.3	4.4	0.7	2.7	39.0
95.0	26,758,444.1	0.28	0.28	0.00	0.00	0.00	0.00	0.00	1.4	4.5	0.6	2.1	24.0
Avg		0.60	0.08	0.06	0.00	0.00	0.01	0.00	0.8	3.2	1.7	8.1	67.2
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	1.3	0.6	2.1	22.0
Max		3.25	0.32	0.40	0.00	0.00	0.09	0.00	1.4	4.5	7.5	19.8	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	16
Running time in seconds for writing input file (t^{write})	0.7
Running time in seconds for executing parametric cut procedure (t^{cut})	0.1
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_0200_075.txt

Property of graph	Value
Nodes (n)	200
Density (Δ)	75.0 %
Edges (m)	14,844

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	1,295,780.2	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.2	1.3	0.6	5.4	29.0
5.0	2,435,088.9	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.3	1.7	0.6	17.6	75.0
10.0	4,676,319.6	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.5	2.3	0.8	15.4	103.0
25.0	11,535,176.1	0.19	0.02	0.02	0.00	0.00	0.00	0.00	0.7	3.2	0.8	22.3	120.0
50.0	22,470,347.1	0.53	0.11	0.00	0.00	0.00	0.04	0.00	1.0	3.9	1.1	21.3	120.0
75.0	32,810,498.6	0.32	0.25	0.00	0.00	0.00	0.00	0.00	1.2	4.4	0.8	14.3	120.0
90.0	38,301,995.6	0.49	0.00	0.00	0.00	0.00	0.00	0.00	1.4	4.3	0.7	15.3	120.0
95.0	39,956,717.1	0.28	0.28	0.00	0.00	0.00	0.00	0.00	1.4	4.7	0.6	7.9	120.0
Avg		0.41	0.14	0.00	0.00	0.00	0.01	0.00	0.8	3.2	0.7	14.9	100.9
Min		0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.2	1.3	0.6	5.4	29.0
Max		0.84	0.48	0.02	0.00	0.00	0.04	0.00	1.4	4.7	1.1	22.3	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	14
Running time in seconds for writing input file (t^{write})	0.8
Running time in seconds for executing parametric cut procedure (t^{cut})	0.2
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_0200_100.txt

Property of graph	Value
Nodes (n)	200
Density (Δ)	100.0 %
Edges (m)	19,900

		Deviation from best OFV (%)							Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly		QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	1,503,340.4	3.20	0.14	0.08	0.00	0.00	0.00		0.00	0.2	1.3	0.6	25.6	120.0
5.0	3,161,207.9	1.68	0.23	0.00	0.00	0.00	0.00		0.00	0.3	1.7	0.6	30.6	120.0
10.0	6,389,157.8	0.23	0.07	0.00	0.00	0.00	0.00		0.00	0.5	2.3	0.7	37.6	120.0
25.0	16,254,572.2	0.29	0.05	0.00	0.00	0.00	0.00		0.00	0.7	3.2	0.7	63.5	120.0
50.0	31,852,586.8	0.09	0.09	0.00	0.00	0.00	0.03		0.00	1.0	3.9	0.7	30.2	120.0
75.0	46,718,823.1	0.39	0.00	0.00	0.00	0.00	0.01		0.00	1.2	4.4	0.7	30.5	120.0
90.0	54,656,763.5	0.36	0.33	0.00	0.00	0.00	0.00		0.00	1.4	4.3	0.6	40.7	120.0
95.0	57,126,753.6	0.18	0.18	0.00	0.00	0.00	0.00		0.00	1.4	4.5	0.6	18.2	120.0
Avg		0.80	0.14	0.01	0.00	0.00	0.01		0.00	0.9	3.2	0.6	34.6	120.0
Min		0.09	0.00	0.00	0.00	0.00	0.00		0.00	0.2	1.3	0.6	18.2	120.0
Max		3.20	0.33	0.08	0.00	0.00	0.03		0.00	1.4	4.5	0.7	63.5	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	10
Running time in seconds for writing input file (t^{write})	0.8
Running time in seconds for executing parametric cut procedure (t^{cut})	0.2
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_0300_005.txt

Property of graph	Value
Nodes (n)	300
Density (Δ)	5.0 %
Edges (m)	2,311

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	243,827.0	0.00	0.89	3.22	0.00	0.00	0.00	0.00	0.5	5.8	1.8	0.2	4.0
5.0	456,069.3	0.79	1.12	1.92	0.00	0.00	0.00	0.00	0.7	7.6	2.4	0.3	4.0
10.0	871,396.1	0.34	0.79	1.66	0.00	0.00	0.00	0.00	1.1	9.9	3.3	0.7	22.0
25.0	1,982,381.4	0.45	0.27	0.32	—	0.00	0.00	0.01	1.7	14.1	120.0	1.3	21.0
50.0	3,784,007.6	0.00	0.12	0.17	—	0.00	0.00	0.01	2.5	16.5	120.0	0.6	5.0
75.0	5,342,038.6	0.03	0.07	0.02	0.00	0.00	0.00	0.00	3.1	16.8	6.2	0.4	21.0
90.0	6,136,494.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	15.7	1.6	0.2	5.0
95.0	6,334,829.4	0.20	0.16	0.00	0.00	0.00	0.00	0.00	3.4	16.0	1.3	0.4	55.0
Avg		0.23	0.43	0.91	—	0.00	0.00	0.00	2.0	12.8	32.1	0.5	17.1
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.5	5.8	1.3	0.2	4.0
Max		0.79	1.12	3.22	—	0.00	0.00	0.01	3.4	16.8	120.0	1.3	55.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	24
Running time in seconds for writing input file (t^{write})	1.0
Running time in seconds for executing parametric cut procedure (t^{cut})	0.2
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_0300_010.txt

Property of graph	Value
Nodes (n)	300
Density (Δ)	10.0 %
Edges (m)	4,491

γ	Best OFV	Deviation from best OFV (%)						Running time (s)					
		QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	458,676.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.5	6.0	1.5	0.3	4.0
5.0	844,525.4	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.8	7.9	2.2	0.9	36.0
10.0	1,556,993.5	0.49	0.44	0.23	0.00	0.00	0.00	0.00	1.1	10.3	12.9	4.6	59.0
25.0	3,619,800.7	0.36	0.03	0.05	—	0.00	0.00	0.01	1.7	14.0	120.0	4.1	117.0
50.0	7,002,766.4	0.18	0.10	0.07	0.00	0.00	0.00	0.00	2.5	16.4	32.5	2.0	48.0
75.0	10,160,390.8	0.01	0.01	0.01	0.00	0.00	0.00	0.00	3.0	16.1	5.8	1.1	115.0
90.0	11,857,368.3	0.26	0.26	0.00	0.00	0.00	0.00	0.00	3.3	16.2	2.5	1.4	120.0
95.0	12,374,781.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	15.5	1.4	0.2	1.0
Avg		0.16	0.10	0.05	—	0.00	0.00	0.00	2.0	12.8	22.4	1.8	62.5
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.5	6.0	1.4	0.2	1.0
Max		0.49	0.44	0.23	—	0.00	0.00	0.01	3.4	16.4	120.0	4.6	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	35
Running time in seconds for writing input file (t^{write})	1.0
Running time in seconds for executing parametric cut procedure (t^{cut})	0.2
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_0300_025.txt

Property of graph	Value
Nodes (n)	300
Density (Δ)	25.0 %
Edges (m)	11,240

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	931,558.9	0.50	0.08	0.11	0.00	0.00	0.00	0.00	0.6	6.3	3.0	7.6	35.0
5.0	1,853,334.4	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.8	8.1	4.1	7.8	66.0
10.0	3,664,060.9	0.52	0.26	0.05	0.00	0.00	0.00	0.01	1.1	10.4	16.7	14.0	59.0
25.0	9,131,039.3	0.17	0.03	0.03	0.00	0.00	0.00	0.01	1.8	14.2	17.4	16.6	120.0
50.0	17,810,122.9	0.19	0.05	0.01	0.00	0.00	0.03	0.00	2.5	16.0	6.7	11.0	120.0
75.0	25,817,371.7	0.01	0.00	0.00	0.00	0.00	0.06	0.00	3.1	16.4	2.8	4.2	120.0
90.0	30,166,923.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.3	15.5	1.8	3.1	109.0
95.0	31,466,609.4	0.02	0.01	0.00	0.00	0.00	0.00	0.00	3.4	15.8	1.4	5.8	97.0
Avg		0.19	0.05	0.03	0.00	0.00	0.01	0.00	2.1	12.8	6.7	8.8	90.8
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.6	6.3	1.4	3.1	35.0
Max		0.52	0.26	0.11	0.00	0.00	0.06	0.01	3.4	16.4	17.4	16.6	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	21
Running time in seconds for writing input file (t^{write})	1.0
Running time in seconds for executing parametric cut procedure (t^{cut})	0.2
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_0300_050.txt

Property of graph	Value
Nodes (n)	300
Density (Δ)	50.0 %
Edges (m)	22,294

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	1,785,890.6	0.30	0.11	0.01	0.00	0.00	0.00	0.00	0.6	6.2	2.5	73.6	120.0
5.0	3,600,198.8	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.8	8.2	1.5	38.7	120.0
10.0	6,955,208.0	1.06	0.00	0.00	0.00	0.00	0.07	0.00	1.2	10.6	6.6	120.7	120.0
25.0	17,494,277.6	0.11	0.04	0.03	0.00	0.00	0.00	0.01	1.8	14.0	15.4	76.8	120.0
50.0	35,223,495.4	0.45	0.03	0.00	0.00	0.00	0.03	0.00	2.6	16.4	3.2	44.3	120.0
75.0	51,060,804.8	0.01	0.01	0.01	0.00	0.00	0.00	0.00	3.1	16.0	2.2	24.3	120.0
90.0	59,418,082.5	0.31	0.22	0.00	0.00	0.00	0.00	0.00	3.4	15.7	1.7	24.5	120.0
95.0	61,900,195.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	15.8	1.4	7.8	120.0
Avg		0.37	0.05	0.01	0.00	0.00	0.01	0.00	2.1	12.8	4.3	51.3	120.0
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.6	6.2	1.4	7.8	120.0
Max		1.06	0.22	0.03	0.00	0.00	0.07	0.01	3.4	16.4	15.4	120.7	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	17
Running time in seconds for writing input file (t^{write})	1.1
Running time in seconds for executing parametric cut procedure (t^{cut})	0.2
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_0300_075.txt

Property of graph	Value
Nodes (n)	300
Density (Δ)	75.0 %
Edges (m)	33,661

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	2,999,792.3	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.6	6.3	1.4	25.6	120.0
5.0	5,522,693.0	0.72	0.36	0.00	0.00	0.00	0.00	0.00	0.8	8.2	1.6	44.2	120.0
10.0	10,622,771.9	0.05	0.04	0.00	0.00	0.00	0.02	0.01	1.1	10.5	2.5	113.7	120.0
25.0	26,124,846.2	0.14	0.00	0.00	0.00	0.00	0.02	0.01	1.8	14.0	3.0	120.7	120.0
50.0	52,283,443.2	0.22	0.02	0.00	0.00	0.00	0.00	0.00	2.5	16.2	2.5	120.3	120.0
75.0	75,852,661.7	0.44	0.22	0.00	0.00	0.00	0.00	0.00	3.0	15.9	1.9	120.3	120.0
90.0	88,637,353.5	0.15	0.05	0.00	0.00	0.00	0.00	0.00	3.3	16.1	1.8	41.5	120.0
95.0	92,604,309.4	0.07	0.07	0.00	0.00	0.00	0.00	0.00	3.3	15.4	1.5	90.2	120.0
Avg		0.27	0.10	0.00	0.00	0.00	0.01	0.00	2.1	12.8	2.0	84.6	120.0
Min		0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.6	6.3	1.4	25.6	120.0
Max		0.72	0.36	0.00	0.00	0.00	0.02	0.01	3.3	16.2	3.0	120.7	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	19
Running time in seconds for writing input file (t^{write})	1.2
Running time in seconds for executing parametric cut procedure (t^{cut})	0.2
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_0300_100.txt

Property of graph	Value
Nodes (n)	300
Density (Δ)	100.0 %
Edges (m)	44,850

γ	Best OFV	Deviation from best OFV (%)						Running time (s)					
		QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	3,954,022.0	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.6	6.5	1.4	14.2	120.0
5.0	7,543,680.9	1.16	0.46	0.00	0.00	0.00	0.00	0.00	0.8	8.7	1.4	48.9	120.0
10.0	14,538,477.6	0.83	0.02	0.00	0.00	0.00	0.00	0.00	1.1	10.6	1.6	86.3	120.0
25.0	35,493,957.2	0.00	0.00	0.00	0.00	0.00	0.03	0.01	1.8	14.2	1.7	54.5	120.0
50.0	68,925,411.6	0.28	0.01	0.00	0.00	0.00	0.04	0.01	2.4	16.1	2.0	120.3	120.0
75.0	102,263,704.4	0.29	0.06	0.00	0.00	0.00	0.00	0.00	3.0	16.1	1.8	62.1	120.0
90.0	120,661,324.4	0.15	0.00	0.00	0.00	0.00	0.01	0.00	3.2	15.6	1.5	44.2	120.0
95.0	125,950,486.8	0.03	0.00	0.00	0.00	0.00	0.00	0.00	3.4	15.7	1.4	13.2	120.0
Avg		0.37	0.07	0.00	0.00	0.00	0.01	0.00	2.0	12.9	1.6	55.5	120.0
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.6	6.5	1.4	13.2	120.0
Max		1.16	0.46	0.00	0.00	0.00	0.04	0.01	3.4	16.1	2.0	120.3	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	18
Running time in seconds for writing input file (t^{write})	1.3
Running time in seconds for executing parametric cut procedure (t^{cut})	0.2
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_0500_005.txt

Property of graph	Value
Nodes (n)	500
Density (Δ)	5.0 %
Edges (m)	6,367

γ	Best OFV	Deviation from best OFV (%)						Running time (s)					
		QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	558,061.0	1.76	1.48	3.88	—	0.00	0.00	0.01	1.5	40.5	120.0	3.6	35.0
5.0	1,128,973.8	0.35	0.08	0.79	—	0.00	0.08	0.00	2.4	54.2	120.0	2.3	120.0
10.0	2,230,939.1	0.39	0.22	0.42	—	0.00	0.00	0.01	3.4	76.1	120.0	3.8	120.0
25.0	5,452,739.2	0.15	0.12	0.36	—	0.00	0.00	0.01	5.7	110.4	120.0	2.2	40.0
50.0	10,669,402.8	0.06	0.03	0.06	—	0.00	0.00	0.01	8.3	109.3	120.0	1.1	58.0
75.0	15,422,748.8	0.03	0.03	0.03	—	0.00	0.00	0.00	10.3	109.5	120.0	1.9	42.0
90.0	17,896,753.9	0.04	0.00	0.00	—	0.00	0.02	0.00	11.2	103.1	120.0	1.0	120.0
95.0	18,573,898.0	0.00	0.00	0.00	—	0.00	0.00	0.00	11.8	94.5	120.0	0.5	1.0
Avg		0.35	0.24	0.69	—	0.00	0.01	0.01	6.8	87.2	120.0	2.1	67.0
Min		0.00	0.00	0.00	—	0.00	0.00	0.00	1.5	40.5	120.0	0.5	1.0
Max		1.76	1.48	3.88	—	0.00	0.08	0.01	11.8	110.4	120.0	3.8	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	29
Running time in seconds for writing input file (t^{write})	1.7
Running time in seconds for executing parametric cut procedure (t^{cut})	0.3
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_0500_010.txt

Property of graph	Value
Nodes (n)	500
Density (Δ)	10.0 %
Edges (m)	12,399

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	1,084,012.7	0.23	0.38	0.57	—	0.00	0.00	0.01	1.5	39.2	120.0	17.0	68.0
5.0	2,087,950.0	0.00	0.09	0.45	—	0.00	0.00	0.01	2.3	55.6	120.0	19.2	83.0
10.0	4,020,257.3	0.39	0.22	0.12	—	0.00	0.14	0.01	3.4	72.8	120.0	32.1	120.0
25.0	10,123,775.8	0.00	0.12	0.07	—	0.00	0.00	0.01	5.5	103.8	120.0	26.3	120.0
50.0	20,091,488.2	0.04	0.04	0.02	—	0.00	0.04	0.01	7.9	108.9	120.0	12.1	120.0
75.0	29,194,379.6	0.13	0.04	0.00	—	0.00	0.01	0.00	9.5	110.7	120.0	5.8	120.0
90.0	34,046,724.2	0.04	0.01	0.00	—	0.00	0.00	0.00	10.4	98.4	120.0	5.1	120.0
95.0	35,437,662.4	0.02	0.00	0.00	—	0.00	0.00	0.00	10.6	88.9	120.0	1.5	9.0
Avg		0.11	0.11	0.15	—	0.00	0.02	0.01	6.4	84.8	120.0	14.9	95.0
Min		0.00	0.00	0.00	—	0.00	0.00	0.00	1.5	39.2	120.0	1.5	9.0
Max		0.39	0.38	0.57	—	0.00	0.14	0.01	10.6	110.7	120.0	32.1	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	26
Running time in seconds for writing input file (t^{write})	1.7
Running time in seconds for executing parametric cut procedure (t^{cut})	0.3
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_0500_025.txt

Property of graph	Value
Nodes (n)	500
Density (Δ)	25.0 %
Edges (m)	31,118

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	2,581,885.1	0.30	0.24	0.00	—	0.00	0.50	0.01	1.7	42.5	120.0	22.3	120.0
5.0	5,160,148.6	0.41	0.28	0.00	—	0.00	0.10	0.00	2.5	56.6	120.0	19.9	120.0
10.0	10,016,504.2	0.58	0.12	0.00	—	0.00	0.06	0.01	3.5	73.7	120.0	91.7	120.0
25.0	24,853,019.8	0.08	0.03	0.03	—	0.00	0.01	0.01	5.7	103.2	120.0	43.4	120.0
50.0	48,993,908.6	0.14	0.00	0.00	—	0.00	0.00	0.01	7.9	108.0	120.0	67.4	120.0
75.0	72,048,838.2	0.24	0.00	0.00	—	0.00	0.09	0.00	9.5	108.5	120.0	59.2	120.0
90.0	84,301,112.3	0.07	0.05	0.00	—	0.00	0.02	0.00	10.2	97.8	120.0	9.7	120.0
95.0	87,707,536.1	0.02	0.02	0.00	—	0.00	0.00	0.00	10.5	89.6	120.0	17.9	120.0
Avg		0.23	0.09	0.00	—	0.00	0.10	0.01	6.4	85.0	120.0	41.4	120.0
Min		0.02	0.00	0.00	—	0.00	0.00	0.00	1.7	42.5	120.0	9.7	120.0
Max		0.58	0.28	0.03	—	0.00	0.50	0.01	10.5	108.5	120.0	91.7	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	16
Running time in seconds for writing input file (t^{write})	1.9
Running time in seconds for executing parametric cut procedure (t^{cut})	0.3
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_0500_050.txt

Property of graph	Value
Nodes (n)	500
Density (Δ)	50.0 %
Edges (m)	62,463

γ	Best OFV	Deviation from best OFV (%)						Running time (s)					
		QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	4,702,038.2	0.52	0.40	0.00	—	0.12	0.00	0.01	1.7	45.4	120.0	120.1	120.0
5.0	9,564,042.5	0.58	0.07	0.00	—	6.43	0.21	0.01	2.6	57.1	120.0	120.1	120.0
10.0	18,747,885.1	0.00	0.00	0.00	—	1.18	0.08	0.01	3.6	78.5	120.0	120.1	120.0
25.0	47,909,716.0	0.11	0.04	0.00	—	6.50	0.00	0.01	5.7	103.4	120.0	120.1	120.0
50.0	96,893,829.3	0.06	0.00	0.00	—	0.42	0.03	0.01	8.2	106.5	120.0	120.1	120.0
75.0	143,539,160.9	0.17	0.02	0.00	—	0.00	0.11	0.00	9.9	106.3	120.0	57.7	120.0
90.0	168,210,283.3	0.06	0.06	0.00	—	0.00	0.07	0.00	10.8	103.6	120.0	56.4	120.0
95.0	175,198,752.3	0.10	0.09	0.00	—	0.00	0.00	0.00	11.0	91.4	120.0	64.7	120.0
Avg		0.20	0.08	0.00	—	1.83	0.06	0.01	6.7	86.5	120.0	97.4	120.0
Min		0.00	0.00	0.00	—	0.00	0.00	0.00	1.7	45.4	120.0	56.4	120.0
Max		0.58	0.40	0.00	—	6.50	0.21	0.01	11.0	106.5	120.0	120.1	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	14
Running time in seconds for writing input file (t^{write})	2.2
Running time in seconds for executing parametric cut procedure (t^{cut})	0.3
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_0500_075.txt

Property of graph	Value
Nodes (n)	500
Density (Δ)	75.0 %
Edges (m)	93,428

γ	Best OFV	Deviation from best OFV (%)						Running time (s)					
		QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	7,076,592.5	0.58	0.04	0.00	—	2,418.75	0.04	0.01	1.7	42.5	120.0	120.1	120.0
5.0	14,158,194.6	0.10	0.06	0.00	—	1,612.72	0.00	0.01	2.4	56.8	120.0	120.1	120.0
10.0	28,229,742.7	0.11	0.00	0.00	—	7.32	0.17	0.01	3.5	73.8	120.0	120.1	120.0
25.0	71,497,396.7	0.00	0.00	0.00	—	5.39	0.10	0.01	5.6	103.0	120.0	120.1	120.0
50.0	145,346,118.0	0.32	0.00	0.00	—	23.63	0.02	0.01	7.9	106.3	120.0	120.1	120.0
75.0	215,222,498.9	0.17	0.00	0.00	—	0.07	0.16	0.01	9.4	108.7	120.0	120.1	120.0
90.0	252,337,180.7	0.18	0.10	0.00	—	0.00	0.00	0.00	10.2	97.2	120.0	90.5	120.0
95.0	262,959,622.5	0.13	0.13	0.00	—	0.00	0.00	0.00	10.4	89.3	120.0	95.5	120.0
Avg		0.20	0.04	0.00	—	508.49	0.06	0.01	6.4	84.7	120.0	113.3	120.0
Min		0.00	0.00	0.00	—	0.00	0.00	0.00	1.7	42.5	120.0	90.5	120.0
Max		0.58	0.13	0.00	—	2,418.75	0.17	0.01	10.4	108.7	120.0	120.1	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	12
Running time in seconds for writing input file (t^{write})	2.4
Running time in seconds for executing parametric cut procedure (t^{cut})	0.3
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_0500_100.txt

Property of graph	Value
Nodes (n)	500
Density (Δ)	100.0 %
Edges (m)	124,750

γ	Best OFV	Deviation from best OFV (%)						Running time (s)					
		QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	9,398,593.9	0.00	0.00	0.00	—	3,166.00	0.00	0.01	1.7	43.2	120.0	120.1	120.0
5.0	18,962,077.3	0.08	0.00	0.00	—	1,280.97	0.18	0.01	2.5	56.4	120.0	120.1	120.0
10.0	38,360,551.2	0.30	0.07	0.00	—	644.98	0.04	0.01	3.6	73.9	120.0	120.1	120.0
25.0	96,012,175.0	0.01	0.00	0.00	—	287.33	0.02	0.01	5.8	106.0	120.0	120.1	120.0
50.0	190,519,222.4	0.25	0.02	0.00	—	106.70	0.13	0.01	8.3	109.6	120.0	120.1	120.0
75.0	281,686,636.9	0.16	0.01	0.00	—	32.76	0.06	0.00	9.9	110.6	120.0	120.1	120.0
90.0	330,405,009.5	0.00	0.00	0.00	—	0.00	0.19	0.00	11.2	98.7	120.0	86.0	120.0
95.0	344,823,907.4	0.06	0.04	0.00	—	0.00	0.11	0.00	11.1	90.0	120.0	94.9	120.0
Avg		0.11	0.02	0.00	—	689.84	0.09	0.01	6.8	86.0	120.0	112.7	120.0
Min		0.00	0.00	0.00	—	0.00	0.00	0.00	1.7	43.2	120.0	86.0	120.0
Max		0.30	0.07	0.00	—	3,166.00	0.19	0.01	11.2	110.6	120.0	120.1	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	15
Running time in seconds for writing input file (t^{write})	2.6
Running time in seconds for executing parametric cut procedure (t^{cut})	0.4
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_1000_005.txt

Property of graph	Value
Nodes (n)	1,000
Density (Δ)	5.0 %
Edges (m)	24,926

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	2,097,668.7	0.27	0.19	—	—	0.00	0.66	0.02	10.2	120.0	120.0	54.7	120.0
5.0	4,133,456.0	0.20	0.05	—	—	0.00	0.12	0.01	15.4	120.0	120.0	63.0	120.0
10.0	8,257,446.2	0.15	0.06	—	—	0.00	0.11	0.02	23.0	120.0	120.0	58.7	120.0
25.0	20,679,798.2	0.07	0.00	—	—	0.00	0.03	0.03	37.4	120.0	120.0	120.3	120.0
50.0	40,900,913.2	0.05	0.01	—	—	0.00	0.08	0.01	51.9	120.0	120.0	13.6	120.0
75.0	59,586,465.8	0.01	0.00	—	—	0.00	0.05	0.01	63.5	120.0	120.0	13.6	120.0
90.0	69,335,143.9	0.01	0.00	—	—	0.00	0.00	0.01	67.6	120.0	120.0	3.6	94.0
95.0	72,114,236.0	0.01	0.00	—	—	0.00	0.00	0.01	69.8	120.0	120.0	4.2	88.0
Avg		0.10	0.04	—	—	0.00	0.13	0.02	42.4	120.0	120.0	41.5	112.8
Min		0.01	0.00	—	—	0.00	0.00	0.01	10.2	120.0	120.0	3.6	88.0
Max		0.27	0.19	—	—	0.00	0.66	0.03	69.8	120.0	120.0	120.3	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	20
Running time in seconds for writing input file (t^{write})	3.6
Running time in seconds for executing parametric cut procedure (t^{cut})	0.5
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_1000_010.txt

Property of graph	Value
Nodes (n)	1,000
Density (Δ)	10.0 %
Edges (m)	49,500

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	4,094,690.2	0.17	0.15	—	—	0.00	0.28	0.01	9.8	120.0	120.0	85.2	120.0
5.0	8,106,253.8	0.08	0.02	—	—	0.00	0.10	0.01	14.9	120.0	120.0	69.9	120.0
10.0	16,208,280.2	0.00	0.03	—	—	0.00	0.03	0.02	22.5	120.0	120.0	80.0	120.0
25.0	39,835,229.4	0.02	0.01	—	—	0.00	0.13	0.02	35.7	120.0	120.0	30.3	120.0
50.0	77,902,137.5	0.02	0.01	—	—	0.00	0.02	0.03	51.1	120.0	120.0	121.1	120.0
75.0	114,534,934.7	0.01	0.00	—	—	0.00	0.06	0.01	61.7	120.0	120.0	13.1	120.0
90.0	134,305,637.5	0.03	0.00	—	—	0.00	0.09	0.01	65.6	120.0	120.0	13.3	120.0
95.0	140,105,204.9	0.09	0.01	—	—	0.00	0.04	0.01	66.9	120.0	120.0	11.0	120.0
Avg		0.05	0.03	—	—	0.00	0.09	0.01	41.0	120.0	120.0	53.0	120.0
Min		0.00	0.00	—	—	0.00	0.02	0.01	9.8	120.0	120.0	11.0	120.0
Max		0.17	0.15	—	—	0.00	0.28	0.03	66.9	120.0	120.0	121.1	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	20
Running time in seconds for writing input file (t^{write})	3.7
Running time in seconds for executing parametric cut procedure (t^{cut})	0.5
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_1000_025.txt

Property of graph	Value
Nodes (n)	1,000
Density (Δ)	25.0 %
Edges (m)	124,346

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	9,993,687.5	0.01	0.01	—	—	2,785.20	0.00	0.03	10.7	120.0	120.0	120.1	120.0
5.0	19,788,228.4	0.00	0.00	—	—	1,650.03	0.33	0.01	16.0	120.0	120.0	120.1	120.0
10.0	39,504,344.0	0.28	0.00	—	—	803.85	0.05	0.02	23.3	120.0	120.0	120.1	120.0
25.0	98,585,900.1	0.09	0.00	—	—	311.23	0.15	0.03	37.5	120.0	120.0	120.1	120.0
50.0	198,616,197.0	0.03	0.00	—	—	121.30	0.09	0.02	52.5	120.0	120.0	120.1	120.0
75.0	292,869,748.1	0.02	0.00	—	—	0.00	0.14	0.01	63.4	120.0	120.0	36.4	120.0
90.0	343,021,553.1	0.02	0.00	—	—	0.00	0.06	0.01	69.2	120.0	120.0	32.6	120.0
95.0	357,709,491.6	0.03	0.00	—	—	0.00	0.09	0.01	69.8	120.0	120.0	29.7	120.0
Avg		0.06	0.00	—	—	708.95	0.11	0.02	42.8	120.0	120.0	87.4	120.0
Min		0.00	0.00	—	—	0.00	0.00	0.01	10.7	120.0	120.0	29.7	120.0
Max		0.28	0.01	—	—	2,785.20	0.33	0.03	69.8	120.0	120.0	120.1	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	11
Running time in seconds for writing input file (t^{write})	4.5
Running time in seconds for executing parametric cut procedure (t^{cut})	0.6
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_1000_050.txt

Property of graph	Value
Nodes (n)	1,000
Density (Δ)	50.0 %
Edges (m)	250,545

γ	Best OFV	Deviation from best OFV (%)						Running time (s)					
		QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	17,884,079.9	0.00	0.00	—	—	2,932.39	0.35	0.03	10.4	120.0	120.0	120.4	120.0
5.0	37,062,363.1	0.47	0.00	—	—	1,945.77	0.26	0.01	15.7	120.0	120.0	120.3	120.0
10.0	74,779,460.4	0.02	0.00	—	—	856.41	0.31	0.02	22.1	120.0	120.0	120.4	120.0
25.0	192,960,369.6	0.13	0.00	—	—	311.42	0.37	0.03	36.2	120.0	120.0	120.3	120.0
50.0	387,058,835.1	0.11	0.00	—	—	0.00	0.37	0.02	50.2	120.0	120.0	120.3	120.0
75.0	574,164,632.3	0.05	0.00	—	—	5.02	0.11	0.01	60.6	120.0	120.0	120.6	120.0
90.0	675,290,477.1	0.05	0.00	—	—	3.52	0.15	0.01	64.9	120.0	120.0	120.3	120.0
95.0	704,722,770.8	0.06	0.00	—	—	1.84	0.03	0.01	65.6	120.0	120.0	120.3	120.0
Avg		0.11	0.00	—	—	757.05	0.24	0.02	40.7	120.0	120.0	120.4	120.0
Min		0.00	0.00	—	—	0.00	0.03	0.01	10.4	120.0	120.0	120.3	120.0
Max		0.47	0.00	—	—	2,932.39	0.37	0.03	65.6	120.0	120.0	120.6	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	14
Running time in seconds for writing input file (t^{write})	5.5
Running time in seconds for executing parametric cut procedure (t^{cut})	0.7
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_1000_075.txt

Property of graph	Value
Nodes (n)	1,000
Density (Δ)	75.0 %
Edges (m)	374,402

γ	Best OFV	Deviation from best OFV (%)						Running time (s)					
		QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	27,658,495.8	0.00	0.00	—	—	2,472.82	0.84	0.03	11.0	120.0	120.0	120.4	120.0
5.0	56,356,737.3	0.00	0.00	—	—	1,443.26	0.46	0.01	15.8	120.0	120.0	120.4	120.0
10.0	113,215,508.7	0.18	0.00	—	—	810.69	0.60	0.02	23.4	120.0	120.0	120.4	120.0
25.0	288,913,846.2	0.19	0.00	—	—	296.34	0.54	0.03	38.2	120.0	120.0	120.4	120.0
50.0	590,302,430.7	0.00	0.00	—	—	113.75	0.53	0.03	52.5	120.0	120.0	120.3	120.0
75.0	880,675,581.5	0.01	0.00	—	—	40.47	0.20	0.01	63.3	120.0	120.0	120.5	120.0
90.0	1,033,406,951.1	0.10	0.00	—	—	12.10	0.17	0.01	67.6	120.0	120.0	120.4	120.0
95.0	1,077,214,007.8	0.04	0.04	—	—	6.10	0.00	0.01	69.3	120.0	120.0	120.4	120.0
Avg		0.07	0.01	—	—	649.44	0.42	0.02	42.6	120.0	120.0	120.4	120.0
Min		0.00	0.00	—	—	6.10	0.00	0.01	11.0	120.0	120.0	120.3	120.0
Max		0.19	0.04	—	—	2,472.82	0.84	0.03	69.3	120.0	120.0	120.5	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	15
Running time in seconds for writing input file (t^{write})	6.6
Running time in seconds for executing parametric cut procedure (t^{cut})	0.9
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_1000_100.txt

Property of graph	Value
Nodes (n)	1,000
Density (Δ)	100.0 %
Edges (m)	499,500

γ	Best OFV	Deviation from best OFV (%)						Running time (s)					
		QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	36,867,381.1	0.24	0.00	—	—	2,668.33	0.90	0.03	10.5	120.0	120.0	120.4	121.0
5.0	75,092,164.0	0.31	0.00	—	—	1,702.11	0.94	0.01	15.4	120.0	120.0	120.5	121.0
10.0	152,189,862.7	0.20	0.00	—	—	1,065.76	0.49	0.02	24.2	120.0	120.0	120.4	121.0
25.0	393,457,775.1	0.00	0.00	—	—	345.20	1.00	0.03	39.5	120.0	120.0	120.4	121.0
50.0	786,395,235.4	0.02	0.00	—	—	116.19	0.59	0.02	56.8	120.0	120.0	120.6	121.0
75.0	1,160,864,584.9	0.13	0.00	—	—	43.84	0.33	0.01	66.7	120.0	120.0	120.5	121.0
90.0	1,360,479,209.5	0.11	0.00	—	—	17.26	0.23	0.01	70.9	120.0	120.0	120.5	121.0
95.0	1,419,830,579.9	0.09	0.00	—	—	8.20	0.02	0.01	72.0	120.0	120.0	120.5	120.0
Avg		0.14	0.00	—	—	745.86	0.56	0.02	44.5	120.0	120.0	120.5	120.9
Min		0.00	0.00	—	—	8.20	0.02	0.01	10.5	120.0	120.0	120.4	120.0
Max		0.31	0.00	—	—	2,668.33	1.00	0.03	72.0	120.0	120.0	120.6	121.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	16
Running time in seconds for writing input file (t^{write})	7.8
Running time in seconds for executing parametric cut procedure (t^{cut})	1.0
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_2000_005.txt

Property of graph	Value
Nodes (n)	2,000
Density (Δ)	5.0 %
Edges (m)	99,390

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	8,162,301.0	0.00	0.00	—	—	3,386.64	0.16	0.06	63.8	120.0	120.0	120.1	120.0
5.0	16,061,052.8	0.00	0.04	—	—	10.19	0.18	0.04	99.1	120.0	120.0	120.1	120.0
10.0	31,862,810.5	0.03	0.00	—	—	4.44	0.25	0.06	120.0	120.0	120.0	120.1	120.0
25.0	79,902,717.2	0.01	0.00	—	—	1.95	0.15	0.10	120.0	120.0	120.0	120.1	120.0
50.0	159,101,626.8	0.02	0.00	—	—	0.00	0.12	0.07	120.1	120.0	120.0	26.7	120.0
75.0	233,228,426.7	0.00	0.00	—	—	0.00	0.11	0.07	120.1	120.0	120.0	18.7	120.0
90.0	272,100,482.5	0.01	0.00	—	—	0.00	0.09	0.08	120.1	120.0	120.0	18.9	120.0
95.0	283,623,035.8	0.00	0.00	—	—	0.00	0.05	0.08	120.1	120.0	120.0	22.1	120.0
Avg		0.01	0.01	—	—	425.40	0.14	0.07	110.4	120.0	120.0	70.8	120.0
Min		0.00	0.00	—	—	0.00	0.05	0.04	63.8	120.0	120.0	18.7	120.0
Max		0.03	0.04	—	—	3,386.64	0.25	0.10	120.1	120.0	120.0	120.1	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	20
Running time in seconds for writing input file (t^{write})	7.5
Running time in seconds for executing parametric cut procedure (t^{cut})	0.9
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_2000_010.txt

Property of graph	Value
Nodes (n)	2,000
Density (Δ)	10.0 %
Edges (m)	199,944

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	15,158,237.1	0.09	0.00	—	—	1,997.86	0.36	0.13	69.6	120.0	120.0	120.4	120.0
5.0	30,820,187.5	0.01	0.00	—	—	1,580.84	0.47	0.03	102.8	120.0	120.0	120.4	120.0
10.0	62,924,872.2	0.01	0.00	—	—	836.44	0.28	0.06	120.0	120.0	120.0	120.4	120.0
25.0	158,171,275.1	0.00	0.00	—	—	283.48	0.25	0.06	120.0	120.0	120.0	120.3	120.0
50.0	314,268,401.3	0.02	0.00	—	—	0.01	0.24	0.10	120.2	120.0	120.0	114.6	120.0
75.0	462,872,938.6	0.02	0.00	—	—	5.72	0.18	0.07	120.0	120.0	120.0	120.6	120.0
90.0	542,046,348.4	0.01	0.00	—	—	3.22	0.10	0.08	120.1	120.0	120.0	120.7	120.0
95.0	565,582,538.7	0.04	0.00	—	—	1.85	0.08	0.07	120.2	120.0	120.0	120.7	120.0
Avg		0.02	0.00	—	—	588.68	0.24	0.08	111.6	120.0	120.0	119.8	120.0
Min		0.00	0.00	—	—	0.01	0.08	0.03	69.6	120.0	120.0	114.6	120.0
Max		0.09	0.00	—	—	1,997.86	0.47	0.13	120.2	120.0	120.0	120.7	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	12
Running time in seconds for writing input file (t^{write})	8.2
Running time in seconds for executing parametric cut procedure (t^{cut})	1.0
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_2000_025.txt

Property of graph	Value
Nodes (n)	2,000
Density (Δ)	25.0 %
Edges (m)	500,305

γ	Best OFV	Deviation from best OFV (%)						Running time (s)					
		QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	37,986,132.3	0.06	0.00	—	—	2,327.06	1.54	0.13	65.3	120.0	120.0	121.0	121.0
5.0	76,528,469.4	0.23	0.00	—	—	0.27	0.66	0.03	97.4	120.0	120.0	120.3	121.0
10.0	152,682,680.5	0.01	0.00	—	—	44.82	0.74	0.05	120.0	120.0	120.0	121.1	121.0
25.0	379,984,618.9	0.01	0.00	—	—	72.94	0.98	0.10	120.0	120.0	120.0	120.4	121.0
50.0	760,656,415.4	0.01	0.00	—	—	0.11	0.82	0.08	120.0	120.0	120.0	120.6	120.0
75.0	1,127,172,236.1	0.00	0.00	—	—	5.22	0.29	0.07	120.0	120.0	120.0	120.4	120.0
90.0	1,325,660,720.7	0.00	0.00	—	—	3.72	0.22	0.07	120.1	120.0	120.0	120.5	121.0
95.0	1,383,523,525.9	0.00	0.00	—	—	2.18	0.08	0.07	120.1	120.0	120.0	120.5	120.0
Avg		0.04	0.00	—	—	307.04	0.67	0.07	110.4	120.0	120.0	120.6	120.6
Min		0.00	0.00	—	—	0.11	0.08	0.03	65.3	120.0	120.0	120.3	120.0
Max		0.23	0.00	—	—	2,327.06	1.54	0.13	120.1	120.0	120.0	121.1	121.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	11
Running time in seconds for writing input file (t^{write})	11.0
Running time in seconds for executing parametric cut procedure (t^{cut})	1.3
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_2000_050.txt

Property of graph	Value
Nodes (n)	2,000
Density (Δ)	50.0 %
Edges (m)	999,892

γ	Best OFV	Deviation from best OFV (%)						Running time (s)					
		QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	74,893,413.0	0.00	0.00	—	—	3,291.19	2.03	0.14	66.9	120.0	120.0	122.0	122.0
5.0	152,454,540.0	0.07	0.00	—	—	1,590.20	2.15	0.03	99.3	120.0	120.0	123.7	122.0
10.0	308,930,505.6	0.03	0.00	—	—	850.73	1.83	0.06	120.0	120.0	120.0	124.1	122.0
25.0	767,501,379.1	0.07	0.00	—	—	327.32	2.14	0.10	120.0	120.0	120.0	120.8	122.0
50.0	1,556,100,760.9	0.02	0.00	—	—	112.36	1.22	0.10	120.1	120.0	120.0	120.6	122.0
75.0	2,317,855,526.8	0.00	0.00	—	—	37.77	0.75	0.07	120.0	120.0	120.0	120.9	122.0
90.0	2,729,925,869.9	0.00	0.00	—	—	13.87	0.17	0.07	120.1	120.0	120.0	120.7	122.0
95.0	2,852,413,656.9	0.05	0.00	—	—	7.50	0.10	0.07	120.1	120.0	120.0	120.8	122.0
Avg		0.03	0.00	—	—	778.87	1.30	0.08	110.8	120.0	120.0	121.7	122.0
Min		0.00	0.00	—	—	7.50	0.10	0.03	66.9	120.0	120.0	120.6	122.0
Max		0.07	0.00	—	—	3,291.19	2.15	0.14	120.1	120.0	120.0	124.1	122.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	12
Running time in seconds for writing input file (t^{write})	15.0
Running time in seconds for executing parametric cut procedure (t^{cut})	2.0
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_2000_075.txt

Property of graph	Value
Nodes (n)	2,000
Density (Δ)	75.0 %
Edges (m)	1,499,336

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	111,777,087.1	0.26	0.00	—	—	3,161.04	3.29	0.13	65.4	120.0	120.0	123.0	120.0
5.0	227,586,687.5	0.00	0.00	—	—	1,674.65	3.22	0.03	96.7	120.0	120.0	120.9	120.0
10.0	463,811,780.0	0.04	0.00	—	—	913.33	2.68	0.05	120.0	120.0	120.0	121.8	120.0
25.0	1,151,478,894.8	0.03	0.00	—	—	309.16	2.91	0.10	120.1	120.0	120.0	121.0	120.0
50.0	2,308,727,831.2	0.00	0.00	—	—	111.00	2.46	0.09	120.1	120.0	120.0	122.8	120.0
75.0	3,422,995,480.4	0.05	0.00	—	—	38.39	0.99	0.07	120.1	120.0	120.0	121.2	120.0
90.0	4,024,243,092.5	0.02	0.00	—	—	13.78	0.29	0.07	120.1	120.0	120.0	121.2	120.0
95.0	4,198,910,746.6	0.00	0.00	—	—	5.71	0.08	0.07	120.2	120.0	120.0	122.0	120.0
Avg		0.05	0.00	—	—	778.38	1.99	0.08	110.3	120.0	120.0	121.7	120.0
Min		0.00	0.00	—	—	5.71	0.08	0.03	65.4	120.0	120.0	120.9	120.0
Max		0.26	0.00	—	—	3,161.04	3.29	0.13	120.2	120.0	120.0	123.0	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	11
Running time in seconds for writing input file (t^{write})	18.8
Running time in seconds for executing parametric cut procedure (t^{cut})	2.6
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_2000_100.txt

Property of graph	Value
Nodes (n)	2,000
Density (Δ)	100.0 %
Edges (m)	1,999,000

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	146,032,229.0	0.25	0.00	—	—	2,910.50	3.90	0.14	73.5	120.0	120.0	121.3	120.0
5.0	298,463,595.0	0.00	0.00	—	—	1,848.74	3.28	0.03	109.3	120.0	120.0	122.7	120.0
10.0	610,589,901.0	0.04	0.00	—	—	927.61	3.64	0.06	120.1	120.0	120.0	124.1	120.0
25.0	1,552,122,124.4	0.03	0.00	—	—	316.28	3.18	0.11	120.0	120.0	120.0	122.5	120.0
50.0	3,108,906,506.1	0.00	0.00	—	—	107.83	2.21	0.08	120.0	120.0	120.0	122.7	120.0
75.0	4,618,504,994.4	0.00	0.00	—	—	38.83	1.00	0.07	120.1	120.0	120.0	123.4	120.0
90.0	5,435,578,205.5	0.02	0.00	—	—	13.26	0.42	0.07	120.0	120.0	120.0	121.3	120.0
95.0	5,676,339,787.3	0.01	0.00	—	—	6.57	0.12	0.07	120.0	120.0	120.0	123.0	120.0
Avg		0.04	0.00	—	—	771.20	2.22	0.08	112.9	120.0	120.0	122.6	120.0
Min		0.00	0.00	—	—	6.57	0.12	0.03	73.5	120.0	120.0	121.3	120.0
Max		0.25	0.00	—	—	2,910.50	3.90	0.14	120.1	120.0	120.0	124.1	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	12
Running time in seconds for writing input file (t^{write})	24.3
Running time in seconds for executing parametric cut procedure (t^{cut})	3.4
Running time in seconds for reading result file (t^{read})	0.0