

RESULTS OF MCER- k FOR INSTANCES TA23-TA42

Instance				Optimal Solution		Performance metrics					
Name	n	m	k	Selected Ellipses	Income	CLS size $ S_k $	# E3P subproblems	Backtracking Tree		CPU Time (s)	
								# nodes	#sol leaves	CLS-MCER	Total
TA23			1	1	15.4	8939		44,710	8939	63.46	63.47
TA24			2	1,3	30.3	1116		31,689	4597	62.78	62.80
TA25	400	5	3	1,3,5	41.8	4597	207,056	549,510	2212	63.17	63.37
TA26			4	1,3,4,5	51.2	1317		10,524,741	8844	63.07	71.62
TA27			5	1,2,3,4,5	60.2	2212		100,446,086	19,904	63.16	219.73
TA28			1	4	32.9	9141		15,093	7539	198.29	198.30
TA29			2	4,5	60.8	12,541		9861	2302	196.96	196.99
TA30	500	5	3	3,4,5	84.9	15,986	655,969	146,030	4599	197.41	197.90
TA31			4	1,3,4,5	105.3	7539		14,107,397	16,124	197.83	238.85
TA32			5	1,2,3,4,5	123.7	2313		510,878,989	39,157	197.21	2347.94
TA33			1	2	44.5	34,585		71,347	17,833	379.90	379.93
TA34			2	2,4	77.5	17,833		61,168	12,741	378.37	378.44
TA35	600	5	3	1,2,4	105.8	5988	1,266,119	243,344	50,873	379.79	379.98
TA36			4	1,2,4,5	131.0	12,861		275,879	12,085	381.46	381.73
TA37			5	1,2,3,4,5	153.4	2090		280,278	16,108	380.39	380.87
TA38			1	5	64.0	7597		7195	7180	731.35	731.38
TA39			2	1,5	112.5	14,076		44,768	14,360	725.67	725.86
TA40	700	5	3	1,2,5	146.6	2386	2,500,817	271,740	14,360	729.36	732.77
TA41			4	1,2,4,5	174.9	26,697		938,333	57,437	725.81	750.48
TA42			5	1,2,3,4,5	199.3	7180		5,572,365	78,977	723.72	1242.04