

DENSE: name	n	D	Density ρ	m = 1	m = 4	m = 8	radical
3-vars14		2744	0.11	91 (0.993)	21 (0.975)	19 (0.964)	yes
3-vars16		4096	0.0961	1603 (0.999)	598 (0.998)	559 (0.998)	yes
4-vars6		1296	0.238	10 (0.976)	2 (0.922)	2 (0.873)	yes
4-vars7		2401	0.205	69 (0.992)	18 (0.977)	19 (0.97)	yes
3-vars-mixed14		2808	0.117	96 (0.993)	22 (0.975)	19 (0.964)	no
3-vars-mixed16		4312	0.102	375 (0.997)	83 (0.988)	86 (0.985)	no
4-vars-mixed6		1552	0.263	16 (0.981)	4 (0.938)	4 (0.916)	no
4-vars-mixed7		2657	0.228	98 (0.994)	25 (0.981)	26 (0.974)	no
quadratic-mixed9		522	0.593	1 (0.781)	0 (0.6)	0 (0.521)	no
quadratic-mixed10		1035	0.56	5 (0.945)	2 (0.875)	1 (0.836)	no
eco12		1024	0.55	6 (0.948)	2 (0.866)	1 (0.815)	yes
katsura10		1024	0.63	6 (0.954)	1 (0.848)	1 (0.804)	yes
sot1		8694	0.0107	2983 (0.998)	804 (0.996)	646 (0.993)	yes
vor2		574	0.513	1 (0.844)	0 (0.673)	0 (0.616)	yes
W1-2-10-4		1344	0.641	11 (0.966)	3 (0.906)	2 (0.851)	yes
W1-2-11-4		1920	0.658	36 (0.981)	8 (0.941)	7 (0.922)	yes

EIGEN SPARSE: name	n	D	Density ρ	m = 1	m = 4	m = 8	radical
3-vars14		2744	0	4 (0.836)	1 (0.657)	2 (0.558)	yes
3-vars16		4096	0	11 (0.896)	4 (0.755)	4 (0.66)	yes
4-vars6		1296	0	1 (0.734)	0 (0.514)	0 (0.423)	yes
4-vars7		2401	0	5 (0.874)	2 (0.744)	2 (0.636)	yes
3-vars-mixed14		2808	0	4 (0.851)	2 (0.769)	2 (0.582)	no
3-vars-mixed16		4312	0	13 (0.908)	5 (0.787)	4 (0.7)	no
4-vars-mixed6		1552	0	2 (0.8)	1 (0.606)	1 (0.531)	no
4-vars-mixed7		2657	0	7 (0.906)	2 (0.792)	2 (0.701)	no
quadratic-mixed9		522	0	0 (0.481)	0 (0.303)	0 (0.246)	no
quadratic-mixed10		1035	0	1 (0.723)	0 (0.538)	0 (0.481)	no
eco12		1024	0	1 (0.71)	0 (0.513)	0 (0.455)	yes
katsura10		1024	0	1 (0.754)	0 (0.571)	0 (0.494)	yes
sot1		8694	0	15 (0.81)	7 (0.562)	8 (0.421)	no
vor2		574	0	0 (0.553)	0 (0.347)	0 (0.309)	yes
W1-2-10-4		1344	0	3 (0.845)	1 (0.723)	1 (0.634)	yes
W1-2-11-4		1920	0	7 (0.906)	2 (0.817)	2 (0.759)	yes

Test Dec 5

name	n	D	Density ρ	m = 1	m = 4	m = 8	radical
3-vars24		13824	0	279 (0.963)	92 (0.903)	92 (0.875)	yes
3-vars26		17576	0	528 (0.966)	179 (0.917)	178 (0.891)	yes
4-vars10		10000	0	226 (0.976)	68 (0.941)	66 (0.917)	yes
4-vars11		14641	0	636 (0.984)	210 (0.962)	201 (0.948)	yes
3-vars-mixed15		3591	0	8 (0.891)	3 (0.751)	3 (0.651)	no
3-vars-mixed16		4312	0	13 (0.908)	6 (0.823)	4 (0.705)	no
4-vars-mixed7		2657	0	7 (0.907)	2 (0.793)	2 (0.7)	no
4-vars-mixed8		4352	0	25 (0.945)	8 (0.868)	8 (0.821)	no
quadratic-mixed10		1035	0	1 (0.721)	0 (0.519)	0 (0.48)	no
quadratic-mixed11		2060	0	8 (0.886)	3 (0.797)	2 (0.744)	no
eco12		1024	0	1 (0.709)	0 (0.525)	0 (0.454)	yes
katsura10		1024	0	1 (0.748)	0 (0.55)	0 (0.495)	yes
sot1		8694	0	15 (0.809)	7 (0.559)	8 (0.423)	no
vor2		574	0	0 (0.551)	0 (0.344)	0 (0.286)	yes
W1-2-10-4		1344	0	3 (0.845)	1 (0.719)	1 (0.632)	yes
W1-2-11-4		1920	0	8 (0.905)	2 (0.816)	2 (0.759)	yes
Test Dec 7:							
name	n	D	Density ρ	m = 1	m = 2	m = 4	radical
3-vars18		5832	0	27 (0.932)	15 (0.903)	9 (0.834)	yes
3-vars22		10648	0	133 (0.963)	74 (0.946)	41 (0.904)	yes
3-vars24		13824	0	267 (0.971)	144 (0.958)	83 (0.925)	yes
3-vars26		17576	0	520 (0.976)	283 (0.965)	170 (0.943)	yes
3-vars28		21952	0	978 (0.979)	518 (0.972)	345 (0.956)	yes
3-vars30		27000	0	1964 (0.977)	1233 (0.969)	857 (0.89)	yes
3-vars-mixed16		4312	0	13 (0.91)	8 (0.867)	5 (0.793)	no
4-vars10		10000	0	228 (0.976)	123 (0.966)	66 (0.941)	yes
4-vars11		14641	0	644 (0.983)	382 (0.98)	231 (0.968)	yes
4-vars12		20736	0	1653 (0.988)	963 (0.985)	622 (0.977)	yes
4-vars8		4096	0	19 (0.939)	11 (0.91)	6 (0.857)	yes
4-vars9		6561	0	69 (0.963)	39 (0.95)	21 (0.908)	yes
4-vars-mixed8		4352	0	25 (0.946)	14 (0.92)	8 (0.87)	no
quadratic12		4096	0	54 (0.957)	29 (0.941)	16 (0.916)	yes
quadratic-mixed12		4109	0	57 (0.955)	30 (0.937)	17 (0.911)	no
sot1		8694	0	15 (0.814)	9 (0.716)	7 (0.593)	no
W1-3-7-3		6480	0	164 (0.978)	90 (0.972)	49 (0.953)	yes
W1-4-6-2		6480	0	138 (0.977)	74 (0.969)	40 (0.946)	yes
W1-6-5-2		18000	0	1787 (0.99)	1024 (0.987)	717 (0.983)	yes