

n	(p, q)	γ	ε_V	deviation	B	$\ B\ _F^2$	S/V/E	covolume
1	(4, 2)	$-1.00000 + 0.00000i$	$3 \leftrightarrow 14$	2.00×10^{-15}	(0.75, 0.30, 0.68)	1.11	5/1/5	Free?
	(2, 4)	$-1.00000 + 0.00000i$	$3 \leftrightarrow 14$	8.77×10^{-15}	(0.76, 0.47, 0.55)	1.11	5/1/5	Free?
2	(4, 2)	$-0.50000 + 0.86603i$	$4 \leftrightarrow 13$	1.29×10^{-14}	(0.07, 0.42, -0.03)	0.18	20/22/40	0.253735401602386
		$-0.50000 - 0.86603i$	$4 \leftrightarrow 13$	9.44×10^{-15}	(0.08, 0.42, 0.05)	0.18	20/22/40	0.253598511561355
		$-1.50000 + 0.86603i$	$3 \leftrightarrow 13$	4.55×10^{-15}	(0.18, 0.41, 0.04)	0.20	18/22/38	0.253041353515199
		$-1.50000 - 0.86603i$	$4 \leftrightarrow 13$	5.55×10^{-15}	(0.38, 0.31, 0.25)	0.31	18/22/38	0.252720823519394
	(2, 4)	$-0.50000 + 0.86603i$	$5 \leftrightarrow 13$	7.66×10^{-15}	(-0.08, 0.28, 0.07)	0.09	20/22/40	0.253542824010740
		$-0.50000 - 0.86603i$	$3 \leftrightarrow 13$	2.00×10^{-14}	(-0.07, 0.30, 0.05)	0.10	20/22/40	0.253338508765728
		$-1.50000 + 0.86603i$	$4 \leftrightarrow 14$	6.22×10^{-15}	(0.08, 0.30, -0.00)	0.10	18/22/38	0.253712610730981
		$-1.50000 - 0.86603i$	$3 \leftrightarrow 14$	3.33×10^{-15}	(0.02, 0.29, 0.07)	0.09	18/22/38	0.253384811296644
			3	4.66×10^{-15}				0.253384811296590
3	(4, 2)	$-0.12256 - 0.74486i$	$3 \leftrightarrow 13$	2.71×10^{-14}	(-0.21, 0.30, 0.14)	0.16	16/13/27	0.137289264368554
		$-0.12256 + 0.74486i$	$3 \leftrightarrow 13$	7.66×10^{-14}	(-0.05, 0.25, 0.18)	0.10	22/22/42	0.137353485832864
			3, 4, 5	7.84×10^{-14}				0.137353485832673
		$-1.87744 - 0.74486i$	$3 \leftrightarrow 14$	4.22×10^{-15}	(-0.27, 0.37, 0.23)	0.27	14/12/24	0.274956314143136
	(2, 4)	$-1.87744 + 0.74486i$	$5 \leftrightarrow 13$	3.55×10^{-15}	(0.28, 0.43, 0.07)	0.27	14/12/24	0.274956314143194
		$-0.12256 - 0.74486i$	$5 \leftrightarrow 13$	1.07×10^{-13}	(0.08, 0.17, 0.15)	0.06	20/18/36	0.137439859735903
		$-0.12256 + 0.74486i$	$3 \leftrightarrow 13$	2.32×10^{-14}	(0.22, 0.23, -0.06)	0.11	20/18/36	0.137344777947632
		$-1.87744 - 0.74486i$	$3 \leftrightarrow 13$	1.89×10^{-15}	(0.13, 0.29, 0.13)	0.12	14/12/24	0.274956314143212
		$-1.87744 + 0.74486i$	$4 \leftrightarrow 14$	2.44×10^{-15}	(0.17, 0.30, -0.11)	0.13	14/12/24	0.274956314143310
4	(4, 2)	$-1.00000 + 1.00000i$	$4 \leftrightarrow 13$	5.11×10^{-15}	(0.14, 0.44, 0.01)	0.21	16/13/28	0.457982797089828
		$-1.00000 - 1.00000i$	$4 \leftrightarrow 13$	3.11×10^{-15}	(0.30, 0.44, 0.19)	0.31	10/7/16	0.457982797088671
	(2, 4)	$-1.00000 + 1.00000i$	$3 \leftrightarrow 14$	1.13×10^{-14}	(-0.04, 0.27, 0.17)	0.10	16/13/28	0.457982797089235
		$-1.00000 - 1.00000i$	$3 \leftrightarrow 7$	6.11×10^{-15}	(0.08, 0.49, 0.21)	0.29	10/7/16	0.457982797088716
			$8 \leftrightarrow 13$	6.33×10^{-15}				0.457982797088756
5	(4, 2)	$-0.65884 - 1.16154i$	$3 \leftrightarrow 14$	1.13×10^{-14}	(0.42, 0.49, 0.24)	0.47	22/28/48	0.594047553937928
		$-0.65884 + 1.16154i$	$4 \leftrightarrow 13$	6.66×10^{-15}	(0.36, 0.56, -0.09)	0.46	22/28/48	0.593932061794999
		$-1.34116 - 1.16154i$	$4 \leftrightarrow 13$	3.13×10^{-14}	(0.25, 0.51, -0.03)	0.33	24/26/48	0.593035916591978
		$-1.34116 + 1.16154i$	$3 \leftrightarrow 12$	4.41×10^{-14}	(0.25, 0.51, 0.02)	0.33	24/26/48	0.593035916591825
	(2, 4)		3	7.31×10^{-14}				0.593035916591793
		$-0.65884 - 1.16154i$	$3 \leftrightarrow 14$	1.44×10^{-14}	(0.17, 0.38, 0.17)	0.20	22/28/48	0.593687497734380
		$-0.65884 + 1.16154i$	$4 \leftrightarrow 14$	1.12×10^{-14}	(0.19, 0.38, -0.17)	0.21	22/28/48	0.593688668377331
		$-1.34116 - 1.16154i$	$4 \leftrightarrow 14$	5.42×10^{-14}	(0.13, 0.37, 0.08)	0.16	24/26/48	0.592911657244731
		$-1.34116 + 1.16154i$	$3 \leftrightarrow 14$	6.28×10^{-14}	(0.19, 0.37, 0.04)	0.18	24/26/48	0.593687497734524
			3	6.08×10^{-14}				0.593687497734493
6	(4, 2)	$0.23279 - 0.79255i$	$5 \leftrightarrow 12$	1.88×10^{-14}	(0.17, 0.50, 0.13)	0.29	22/26/46	0.593261429781721
		$0.23279 + 0.79255i$	$4 \leftrightarrow 11$	5.50×10^{-14}	(0.13, 0.31, 0.38)	0.26	22/28/48	0.593639175240615
		$-2.23279 - 0.79255i$	$5 \leftrightarrow 14$	2.18×10^{-14}	(-0.27, 0.47, 0.31)	0.39	22/28/48	0.594063100273875
		$-2.23279 + 0.79255i$	$5 \leftrightarrow 13$	1.10×10^{-14}	(-0.26, 0.28, 0.49)	0.39	22/28/48	0.595004149184967
	(2, 4)	$0.23279 - 0.79255i$	$4 \leftrightarrow 13$	4.69×10^{-14}	(0.03, 0.36, 0.11)	0.14	22/26/46	0.593261429782327
		$0.23279 + 0.79255i$	$3 \leftrightarrow 14$	4.24×10^{-14}	(0.02, 0.34, 0.12)	0.13	22/28/48	0.592869862079440
		$-2.23279 - 0.79255i$	$4 \leftrightarrow 14$	1.71×10^{-14}	(0.33, 0.35, 0.21)	0.28	22/28/48	0.593689839020260
		$-2.23279 + 0.79255i$	$4 \leftrightarrow 14$	1.75×10^{-14}	(0.33, 0.34, -0.22)	0.27	22/28/48	0.593689839020190
7	(4, 2)	$-0.22816 - 1.11514i$	$4 \leftrightarrow 12$	2.44×10^{-14}	(0.35, 0.44, 0.31)	0.41	22/26/46	0.793775329716258
		$-0.22816 + 1.11514i$	$4 \leftrightarrow 12$	2.04×10^{-14}	(0.29, 0.53, -0.10)	0.38	24/32/54	0.793730924087971
		$-1.77184 - 1.11514i$	$4 \leftrightarrow 11$	1.08×10^{-13}	(-0.34, 0.45, 0.34)	0.44	22/30/50	0.794323319649402
		$-1.77184 + 1.11514i$	$4 \leftrightarrow 12$	1.26×10^{-13}	(0.39, 0.56, 0.03)	0.46	22/30/50	0.794323319649266
	(2, 4)	$-0.22816 - 1.11514i$	$4 \leftrightarrow 14$	4.95×10^{-14}	(0.08, 0.37, 0.17)	0.17	24/32/54	0.794272642251702
		$-0.22816 + 1.11514i$	$3 \leftrightarrow 14$	1.86×10^{-14}	(0.11, 0.33, 0.23)	0.18	22/26/46	0.793839731308609
		$-1.77184 - 1.11514i$	$4 \leftrightarrow 13$	5.28×10^{-14}	(0.30, 0.39, 0.14)	0.26	22/30/50	0.794323319650378
		$-1.77184 + 1.11514i$	$4 \leftrightarrow 14$	7.48×10^{-14}	(0.30, 0.38, -0.15)	0.26	22/30/50	0.794323319650373
8	(4, 2)	$0.41964 - 0.60629i$	$4 \leftrightarrow 13$	4.00×10^{-13}	(-0.19, 0.32, 0.27)	0.21	22/20/40	0.264774439885714
			4	1.65×10^{-13}				0.264774439884122
			13	1.63×10^{-13}				0.264774439884123
		$0.41964 + 0.60629i$	$4 \leftrightarrow 13$	2.42×10^{-13}	(0.01, 0.33, 0.18)	0.14	20/17/35	0.264774439884227
	(2, 4)	$-2.41964 - 0.60629i$	$4 \leftrightarrow 13$	1.81×10^{-13}	(-0.23, 0.28, 0.31)	0.23	22/20/40	0.264736844559787
		$-2.41964 + 0.60629i$	$4 \leftrightarrow 13$	6.08×10^{-14}	(-0.23, 0.31, 0.29)	0.23	22/20/40	0.264774439883397
		$0.41964 - 0.60629i$	$3 \leftrightarrow 12$	3.94×10^{-13}	(0.39, 0.27, 0.12)	0.24	22/20/40	0.264774439886526
			3	3.41×10^{-13}				0.264774439886159
		$0.41964 + 0.60629i$	$3 \leftrightarrow 12$	2.90×10^{-13}	(0.15, 0.19, 0.29)	0.15	20/17/35	0.264774439884908
		$-2.41964 - 0.60629i$	$3 \leftrightarrow 13$	4.77×10^{-14}	(0.00, 0.13, 0.32)	0.12	22/20/40	0.264774439883719
		$-2.41964 + 0.60629i$	$4 \leftrightarrow 12$	1.78×10^{-13}	(-0.07, 0.29, 0.37)	0.22	22/20/40	0.264774439884830

n	(p, q)	γ	ε_V	deviation	B	$\ B\ _E^2$	S/V/E	covolume
9	(4, 2)	$0.00000 + 1.00000i$	$4 \leftrightarrow 12$	2.72×10^{-14}	$(0.40, 0.50, -0.25)$	0.47	20/23/42	0.915965594175611
		$0.00000 - 1.00000i$	$4 \leftrightarrow 13$	2.15×10^{-14}	$(0.40, 0.42, 0.38)$	0.48	20/23/42	0.915965594176800
		$-2.00000 + 1.00000i$	$4 \leftrightarrow 13$	1.43×10^{-14}	$(0.46, 0.57, 0.05)$	0.54	14/10/24	0.915965594175439
		$-2.00000 - 1.00000i$	$4 \leftrightarrow 13$	4.66×10^{-15}	$(-0.33, 0.49, 0.33)$	0.46	14/10/24	0.915965594176536
	(2, 4)	$0.00000 + 1.00000i$	$4 \leftrightarrow 13$	3.70×10^{-14}	$(-0.04, 0.22, 0.37)$	0.19	20/23/42	0.915965594176029
		$0.00000 - 1.00000i$	$4 \leftrightarrow 13$	3.22×10^{-13}	$(0.14, 0.46, 0.28)$	0.31	20/23/42	0.915965594178955
		$-2.00000 + 1.00000i$	$4 \leftrightarrow 13$	2.69×10^{-14}	$(0.36, 0.37, -0.20)$	0.31	14/10/24	0.915965594179460
		$-2.00000 - 1.00000i$	$3 \leftrightarrow 14$	4.66×10^{-15}	$(0.36, 0.38, 0.19)$	0.31	14/10/24	0.915965594176532
10	(4, 2)	$0.61803 + 0.00000i$	$3 \leftrightarrow 13$ 13	7.11×10^{-15} 3.72×10^{-14}	$(0.76, 0.48, 0.47)$	1.03	5/0/5	Free?
		$-2.61803 + 0.00000i$	$4 \leftrightarrow 13$	2.62×10^{-14}	$(-0.80, 0.31, 0.31)$	0.83	11/7/17	Free?
	(2, 4)	$0.61803 + 0.00000i$	$3 \leftrightarrow 13$	6.22×10^{-15}	$(0.68, 0.46, 0.49)$	0.92	5/0/5	Free?
		$-2.61803 + 0.00000i$	$3 \leftrightarrow 13$	1.80×10^{-14}	$(-0.01, 0.21, 0.96)$	0.96	11/7/17	Free?
	(4, 2)	$-1.00000 - 1.27202i$	$4 \leftrightarrow 11$	1.37×10^{-13}	$(0.23, 0.36, 0.18)$	0.22	10/7/16	Free?
11	(4, 2)	$-1.00000 - 1.27202i$	$4 \leftrightarrow 13$	3.74×10^{-14}	$(0.41, 0.41, 0.14)$	0.36	10/7/16	Free?
		$-1.00000 - 1.27202i$	$5 \leftrightarrow 13$	3.91×10^{-14}	$(0.12, 0.20, 0.26)$	0.12	10/7/16	Free?
	(2, 4)	$-1.00000 + 1.27202i$	$4 \leftrightarrow 13$	2.93×10^{-14}	$(0.18, 0.12, 0.25)$	0.11	8/6/13	Free?
		$-1.00000 - 1.27202i$	$4 \leftrightarrow 13$	2.93×10^{-14}	$(0.18, 0.12, 0.25)$	0.11	8/6/13	Free?
	(4, 2)	$-1.00000 - 1.27202i$	$4 \leftrightarrow 13$	2.93×10^{-14}	$(0.18, 0.12, 0.25)$	0.11	8/6/13	Free?
12	(4, 2)	$-0.40631 + 1.19616i$	$5 \leftrightarrow 12$	2.16×10^{-14}	$(0.43, 0.57, -0.12)$	0.53	20/22/40	0.897162578942312
		$-0.40631 - 1.19616i$	$5 \leftrightarrow 12$	2.35×10^{-14}	$(0.42, 0.58, 0.09)$	0.53	20/22/40	0.896781554188068
		$-1.59369 + 1.19616i$	$4 \leftrightarrow 12$	2.75×10^{-14}	$(0.42, 0.37, 0.22)$	0.36	26/28/52	0.447434850607097
		$-1.59369 - 1.19616i$	$4 \leftrightarrow 12$	2.52×10^{-14}	$(0.42, 0.37, 0.22)$	0.36	26/28/52	0.447434850606938
		$-1.59369 - 1.19616i$	$6 \leftrightarrow 12$	3.90×10^{-14}	$(0.42, 0.22, 0.37)$	0.36	26/28/52	0.447402486364538
	(2, 4)	$-0.40631 + 1.19616i$	$3 \leftrightarrow 13$	1.45×10^{-14}	$(0.24, 0.40, 0.05)$	0.22	20/22/40	0.894660969880485
		$-0.40631 - 1.19616i$	$3 \leftrightarrow 14$ 3	2.44×10^{-14} 2.26×10^{-14}	$(0.23, 0.40, 0.20)$	0.25	20/22/40	0.896719777668525
		$-1.59369 + 1.19616i$	$4 \leftrightarrow 13$ 4	7.35×10^{-13} 5.24×10^{-13}	$(0.11, 0.17, -0.27)$	0.11	26/28/52	0.447434850610119
		$-1.59369 - 1.19616i$	$4 \leftrightarrow 12$	1.72×10^{-13}	$(0.11, 0.18, 0.26)$	0.11	26/28/52	0.447434850615054
		$-1.59369 - 1.19616i$	$4 \leftrightarrow 12$	1.72×10^{-13}	$(0.11, 0.18, 0.26)$	0.11	26/28/52	0.447434850609249
13	(4, 2)	$0.78810 + 0.40136i$	$3 \leftrightarrow 12$ 3	4.49×10^{-13} 7.54×10^{-13}	$(-0.15, 0.35, 0.31)$	0.24	24/22/44	0.347567297638236
		$0.78810 - 0.40136i$	$4 \leftrightarrow 12$	9.87×10^{-13}	$(-0.12, 0.45, 0.17)$	0.24	24/22/44	0.347568126904567
		$-2.78810 + 0.40136i$	$4 \leftrightarrow 13$	1.12×10^{-14}	$(-0.05, 0.36, 0.39)$	0.28	20/22/40	0.695106728358357
		$-2.78810 - 0.40136i$	$3 \leftrightarrow 12$	2.04×10^{-14}	$(-0.16, 0.49, 0.26)$	0.33	18/18/34	0.694418848157637
	(2, 4)	$0.78810 + 0.40136i$	$3 \leftrightarrow 11$ 3	9.50×10^{-13} 9.47×10^{-13}	$(0.02, 0.50, 0.25)$	0.31	24/22/44	0.347568126901567
		$0.78810 - 0.40136i$	$3 \leftrightarrow 11$ 3	7.84×10^{-13} 7.85×10^{-13}	$(0.11, 0.58, 0.20)$	0.39	24/22/44	0.347567297637630
		$-2.78810 + 0.40136i$	$3 \leftrightarrow 14$	3.69×10^{-14}	$(0.12, 0.27, 0.27)$	0.16	20/22/40	0.695481297423900
		$-2.78810 - 0.40136i$	$4 \leftrightarrow 13$	1.73×10^{-14}	$(0.25, 0.31, 0.21)$	0.20	20/22/40	0.695279250172051
					failure.			