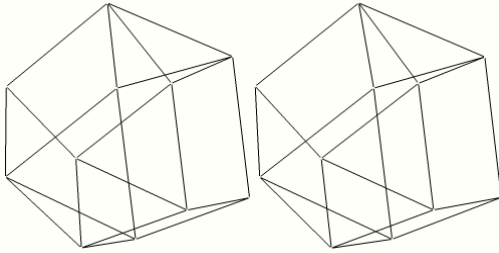


Gleichkanter Nachtrag 6

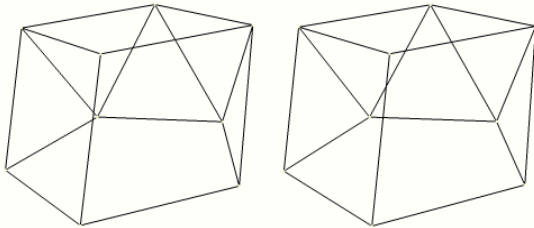
Es stellt sich heraus, dass es enorm viele konvexe Gleichkanter gibt. In diesem Nachtrag zeige ich noch eine weitere Sammlung von Gleichkantern, die relativ wenig Seitenflächen haben.

Verkürzte Bienenwabe (von Enrico Bernal)



Volumen= 1.949, Oberfläche=8.551,
Rautenspitze=82.82°

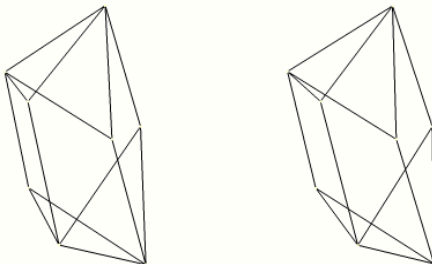
Bügeleisen



Volumen= 1.194, Oberfläche=6.739,
Rautenspitze=72°

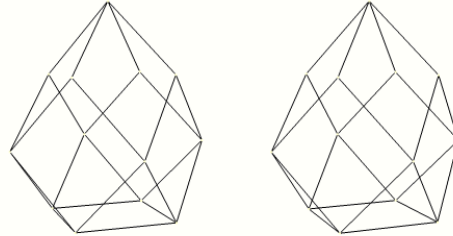
Rautengürtel

Tetragonaler Rautengürtel Typ B (von Enrico Bernal)



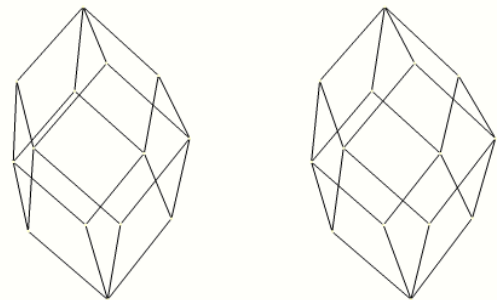
Volumen= 0.618, Oberfläche=4.560
Tetragonaler Rautengürtel Typ A ohne
Dach (=Kubooktaeder)

Tetragonaler Rautengürtel Typ A mit



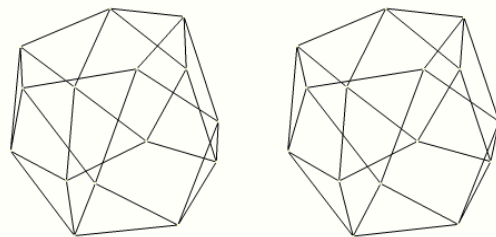
einem Dach (von Enrico Bernal)
Volumen= 2.593, Oberfläche=8.464,
Rautenspitze=60°

Tetragonaler Rautengürtel Typ A mit zwei Dächern (von Enrico Bernal)



Volumen= 2.828, Oberfläche=10.928,
Rautenspitze=60°

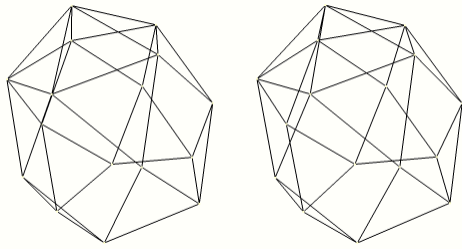
Pentagonaler Rautengürtel ohne Dach (von



Enrico Bernal)

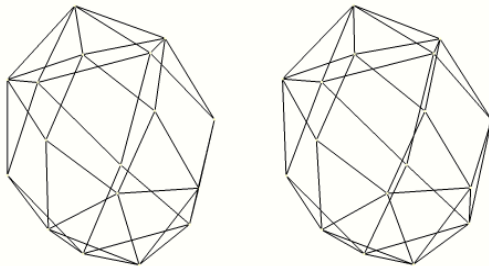
Volumen= 3.657, Oberfläche=12.630,
Rautenspitze=76.35°

Pentagonaler Rautengürtel mit einem Dach



Volumen=3.959, Oberfläche=13.074,
Rautenspitze=76.35°

Pentagonaler Rautengürtel mit zwei Dächern

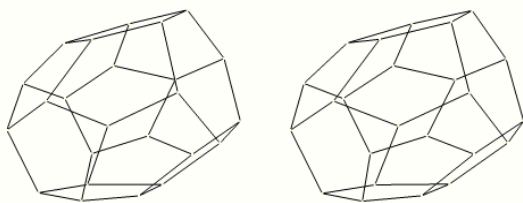


Volumen=4.260, Oberfläche=13.519,
Rautenspitze=76.35°

Verzahnte Gürtel (=ZG)

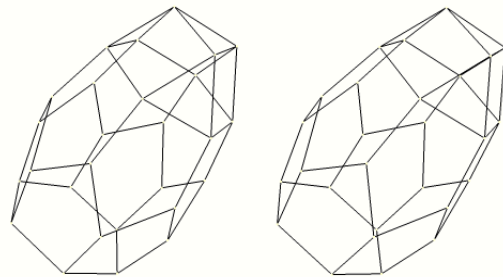
Pentagonaler Zahngürtel = reguläres
Dodekaeder

Hexagonaler Zahngürtel (von Enrico Bernal)



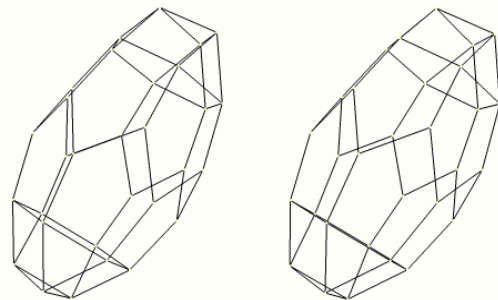
Volumen= 9.603, Oberfläche=24.403

Hexagonaler Zahngürtel mit 1 Dach



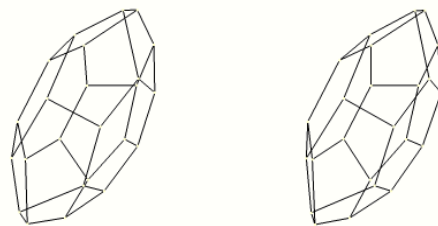
Volumen= 10.781, Oberfläche=26.537

Hexagonaler Zahngürtel mit 2 Dach



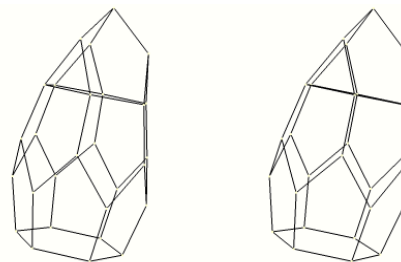
Volumen= 11.960, Oberfläche=28.671

Flacher hexagonaler Zahngürtel (von Enrico Bernal)



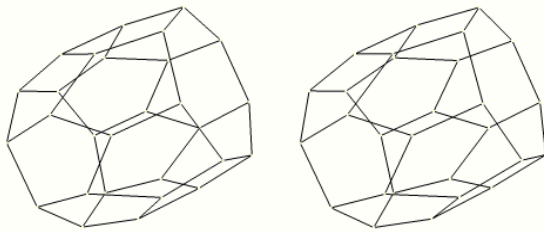
Volumen= 5.897, Oberfläche=24.056

Hexagonaler Zahngürtel +7flach1



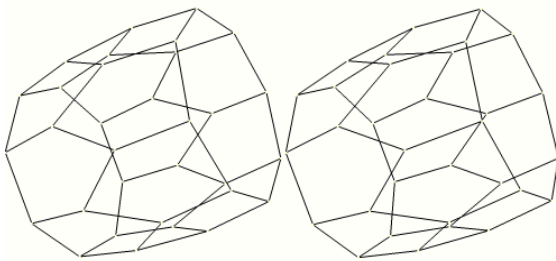
...ist NICHT konvex !

Heptagonaler Zahngürtel (von Enrico Bernal)



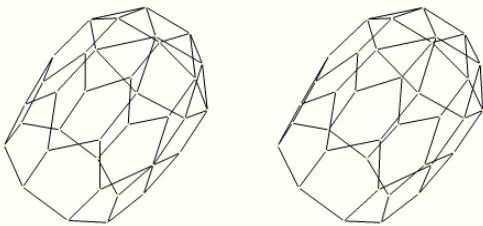
Volumen= 12.366, Oberfläche=28.908

Octagonaler Zahngürtel (von Enrico Bernal)



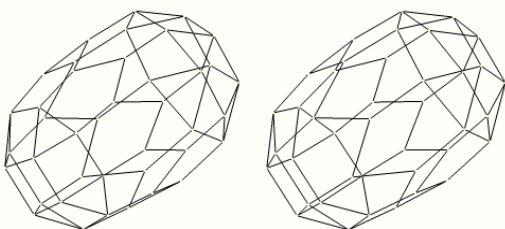
Volumen= 15.286, Oberfläche=33.895

Octagonaler Zahngürtel mit 1 Dach



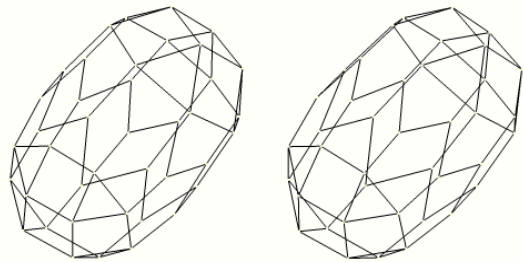
Volumen= 17.625, Oberfläche=35.799

Octagonaler Zahngürtel mit 2 Dach



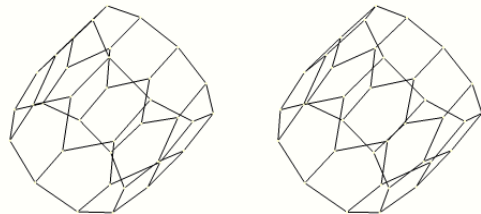
Volumen= 19.568, Oberfläche=37.703

Octagonaler Zahngürtel mit 2 Dach, verdreht



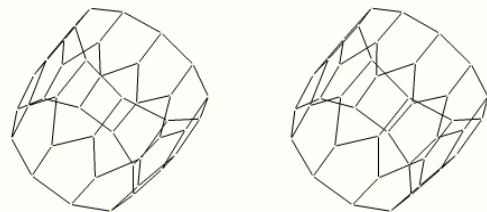
Volumen= 19.568, Oberfläche=37.703

Nonagonaler Zahngürtel (von Enrico Bernal)



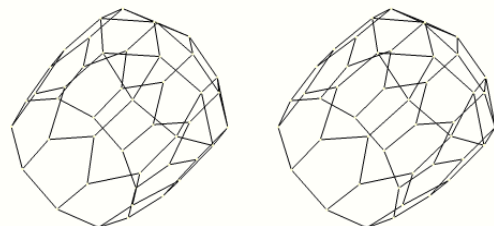
Volumen= 19.496, Oberfläche=39.283

Dekagonaler Zahngürtel (von Enrico Bernal)



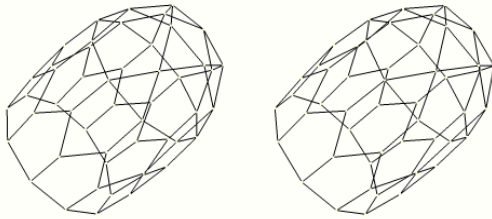
Volumen= 23.788, Oberfläche=45.037

Dekagonaler Zahngürtel mit 1 Dach Typ I

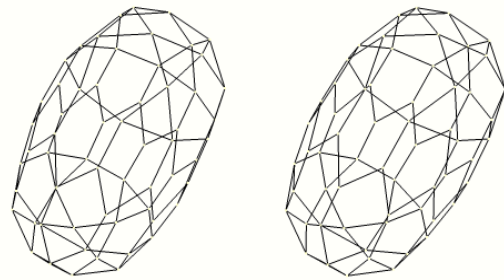


Volumen= 26.112, Oberfläche=46.229

Dekagonaler Zahngürtel mit 1 Dach Typ II
Volumen= 30.706, Oberfläche=51.996

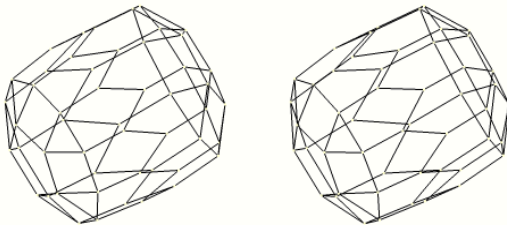


Dekagonaler Zahngürtel mit 2 Dach Typ



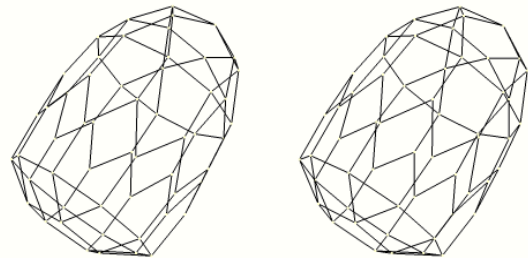
Volumen= 37.623, Oberfläche=58.955

Dekagonaler Zahngürtel mit 2 Dach Typ I



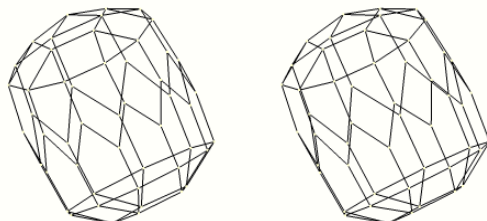
Volumen= 28.436, Oberfläche=47.420

Dekagonaler Zahngürtel mit 2 Dach
vermischt



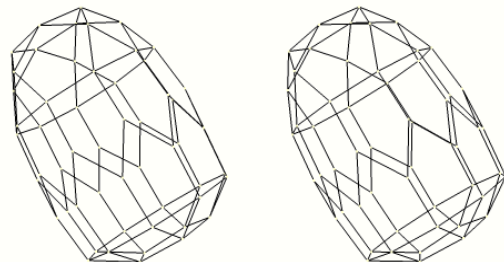
Volumen= 33.030, Oberfläche=53.188

Dekagonaler Zahngürtel mit 2 Dach Typ I,
verdreht



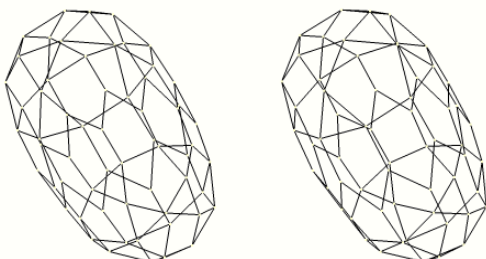
Volumen= 28.436, Oberfläche=47.420

Dekagonaler Zahngürtel mit 2 Dach
vermischt, verdreht



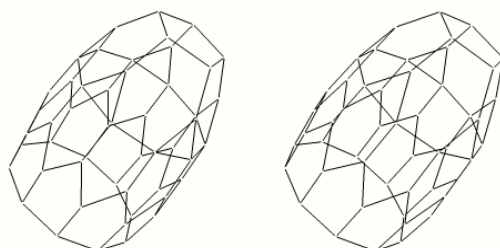
Volumen= 33.030, Oberfläche=53.188

Dekagonaler Zahngürtel mit 2 Dach Typ II



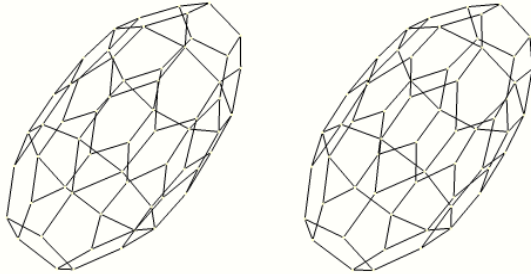
Volumen= 37.623, Oberfläche=58.955

Dekagonaler Zahngürtel mit 1 Dach Typ III
(Dom)



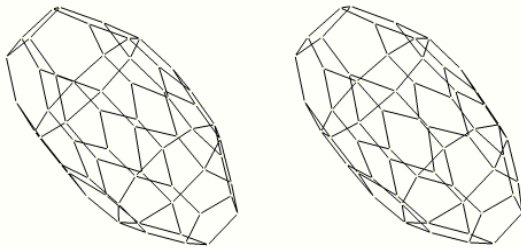
Volumen= 31.568, Oberfläche=53.684

Dekagonaler Zahngürtel mit 2 Dach Typ III (Dom)



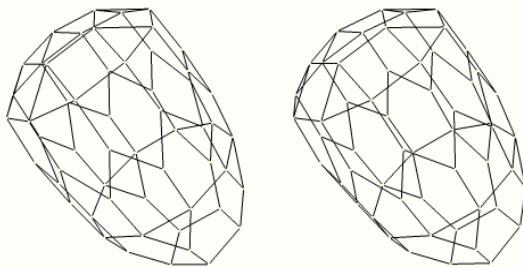
Volumen= 39.340, Oberfläche=62.331.
Bemerkenswert: genau 100 Kanten.

Dekagonaler Zahngürtel mit 2 Dach Typ III (Dom), verdreht



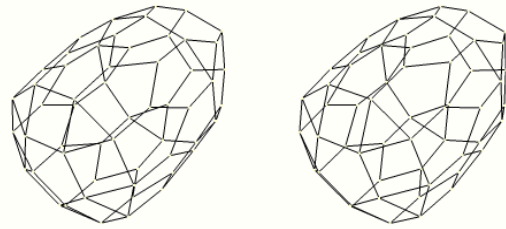
Volumen= 39.340, Oberfläche=62.331.
Bemerkenswert: genau 100 Kanten.

Dekagonaler Zahngürtel mit 2 Dach vermischt I+III



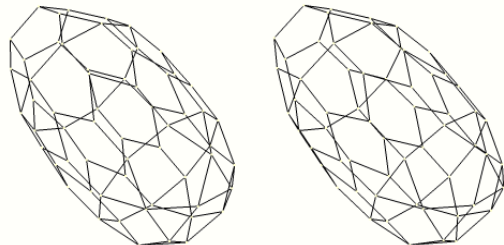
Volumen= 33.890, Oberfläche=54.876

Dekagonaler Zahngürtel mit 2 Dach vermischt I+III , verdreht



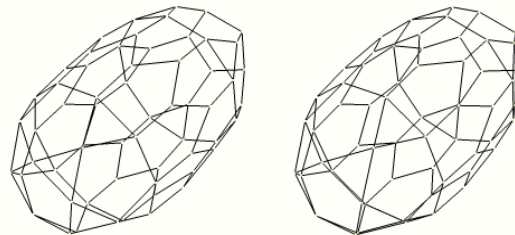
Volumen= 33.890, Oberfläche=54.876

Dekagonaler Zahngürtel mit 2 Dach vermischt II+III



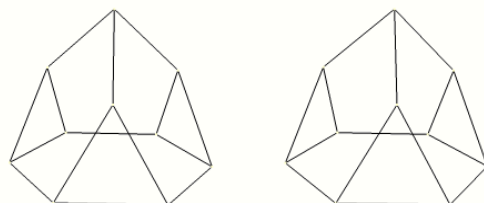
Volumen= 38.482, Oberfläche=60.643

Dekagonaler Zahngürtel mit 2 Dach vermischt II+III , verdreht



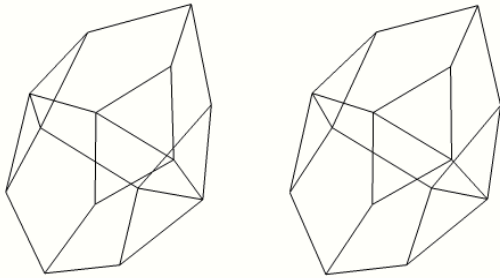
Volumen= 38.482, Oberfläche=60.643

7flach1 (von Enrico Bernal)



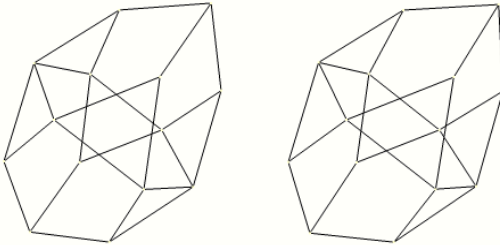
Volumen= 1.600, Oberfläche=8.794

2faches 7flach1 (von Enrico Bernal)



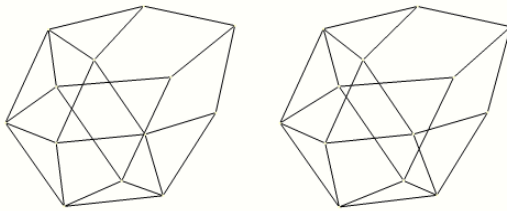
Volumen= 3.199, Oberfläche=12.392

2faches 7flach1, verdreht (von Enrico Bernal)



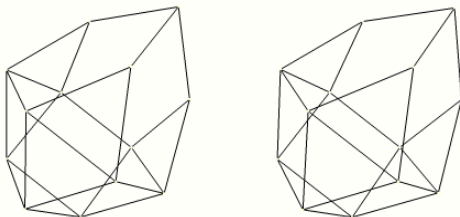
Volumen= 3.199, Oberfläche=12.392

7flach1+KuboO (von Enrico Bernal)



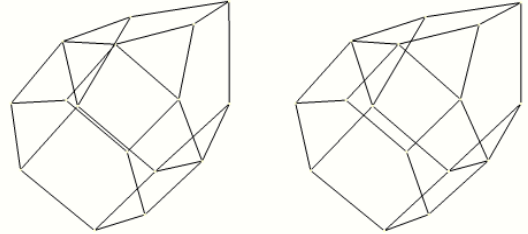
Volumen= 2.778, Oberfläche=10.928

7flach1+KuboO, verdreht (von Enrico Bernal)



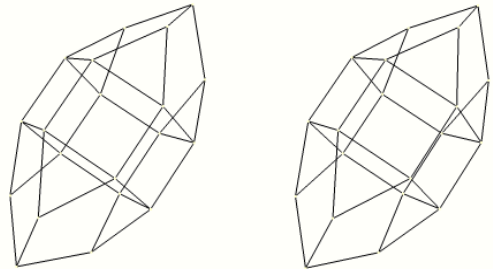
Volumen= 2.778, Oberfläche=10.928

Prisma+7flach1, 1 Dach(von Enrico Bernal)



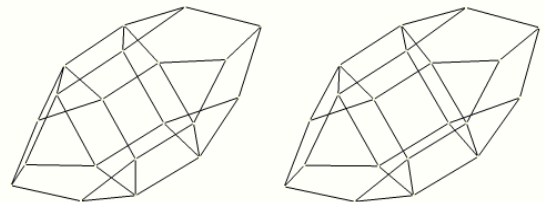
Volumen= 4.198, Oberfläche=14.794

Prisma+7flach1, 2 Dach (von Enrico Bernal)



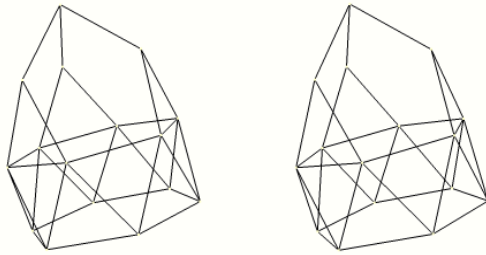
Volumen= 5.797, Oberfläche=18.392

Prisma+7flach1, 2 Dach verdreht (von Enrico Bernal)



Volumen= 5.797, Oberfläche=18.392

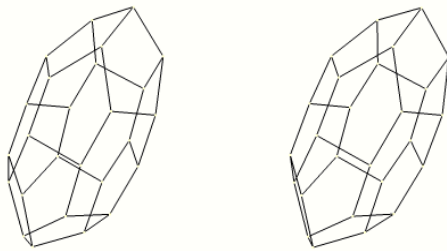
Nicht ausgeführt: 7flach1+Prisma+KuboO-Hälfte ohne/mit Verdrehung.

 Antiprisma+7flach1


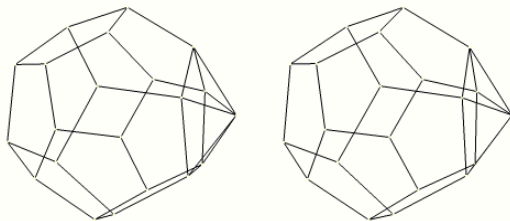
Ganz knapp NICHT konvex !

Antiprisma +7flach1, 2 Dach verdreht
Ganz knapp NICHT konvex !

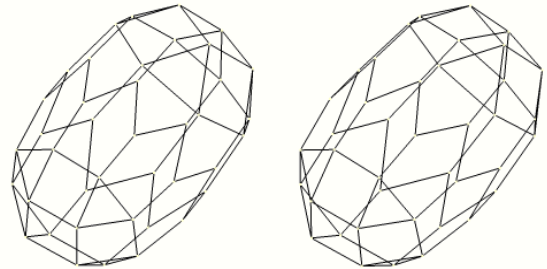
Antiprisma +7flach1, 2 Dach verdreht
Ganz knapp NICHT konvex !

 3hexpent1 (von Enrico Bernal)


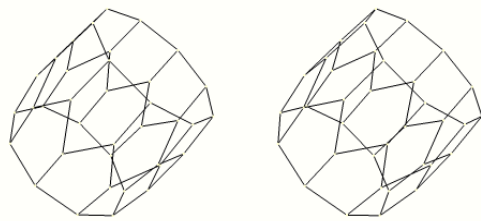
Volumen= 9.812, Oberfläche=27.286

 Dodekaeder mit einer Haube


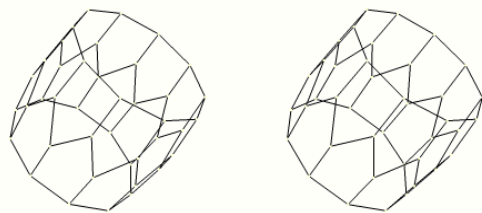
Volumen= 7.965, Oberfläche=21.090

 Octagonaler Zahngürtel mit 2 Dach, verdreht


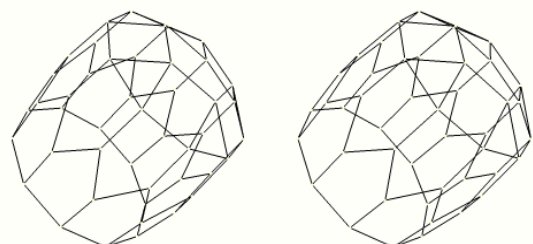
Volumen= 19.568, Oberfläche=37.703

 Nonagonaler Zahngürtel (von Enrico Bernal)


Volumen= 19.496, Oberfläche=39.283

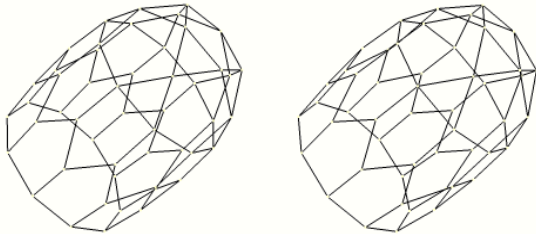
 Dekagonaler Zahngürtel (von Enrico Bernal)


Volumen= 23.788, Oberfläche=45.037

 Dekagonaler Zahngürtel mit 1 Dach Typ I


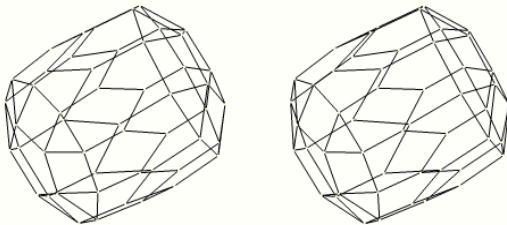
Volumen= 26.112, Oberfläche=46.229

Dekagonaler Zahngürtel mit 1 Dach Typ II



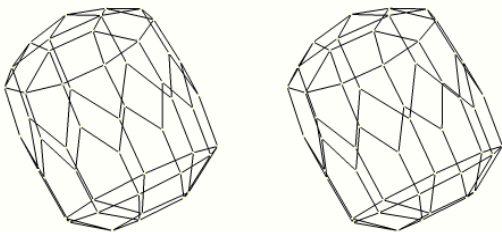
Volumen= 30.706, Oberfläche=51.996

Dekagonaler Zahngürtel mit 2 Dach Typ I



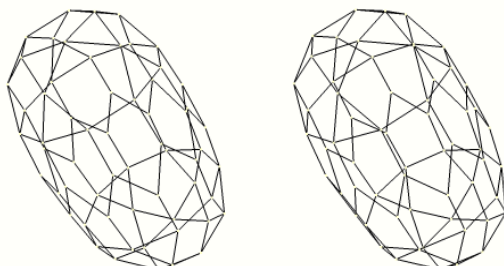
Volumen= 28.436, Oberfläche=47.420

Dekagonaler Zahngürtel mit 2 Dach Typ I, verdreht



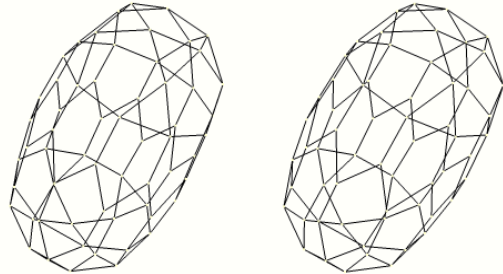
Volumen= 28.436, Oberfläche=47.420

Dekagonaler Zahngürtel mit 2 Dach Typ II



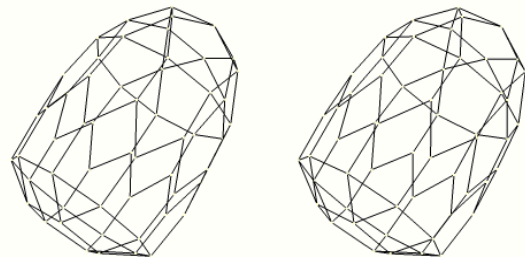
Volumen= 37.623, Oberfläche=58.955

Dekagonaler Zahngürtel mit 2 Dach Typ II, verdreht



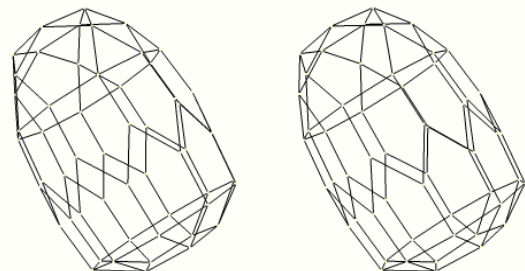
Volumen= 37.623, Oberfläche=58.955

Dekagonaler Zahngürtel mit 2 Dach vermischt



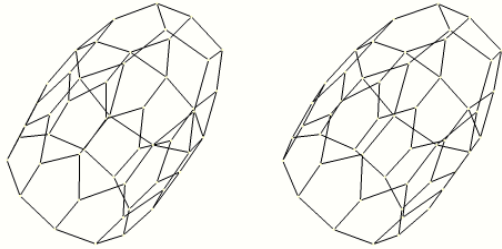
Volumen= 33.030, Oberfläche=53.188

Dekagonaler Zahngürtel mit 2 Dach vermischt, verdreht



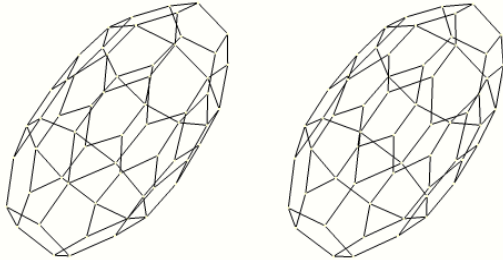
Volumen= 33.030, Oberfläche=53.188

Dekagonaler Zahngürtel mit 1 Dach Typ III
(Dom)



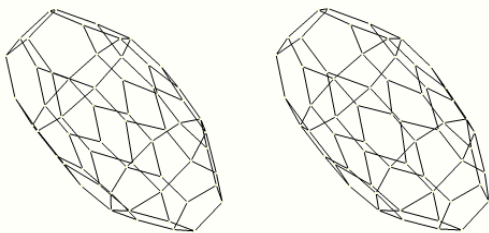
Volumen= 31.568, Oberfläche=53.684

Dekagonaler Zahngürtel mit 2 Dach Typ III
(Dom)



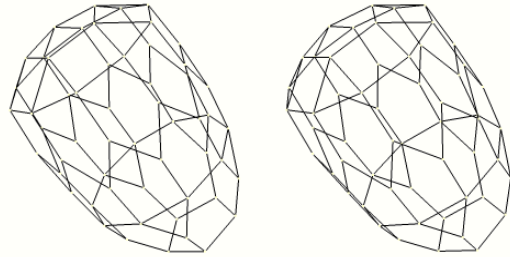
Volumen= 39.340, Oberfläche=62.331
Bemerkenswert: genau 100 Kanten

Dekagonaler Zahngürtel mit 2 Dach Typ III
(Dom), verdreht



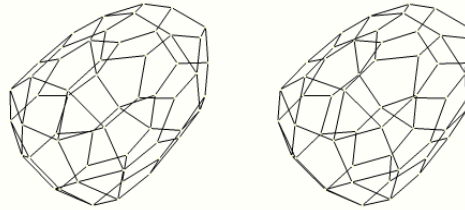
Volumen= 39.340, Oberfläche=62.331
Bemerkenswert: genau 100 Kanten

Dekagonaler Zahngürtel mit 2 Dach
vermischt I+III



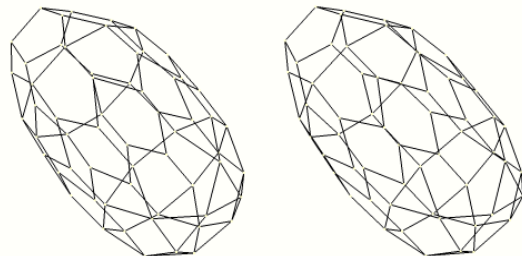
Volumen= 33.890, Oberfläche=54.876

Dekagonaler Zahngürtel mit 2 Dach
vermischt I+III, verdreht



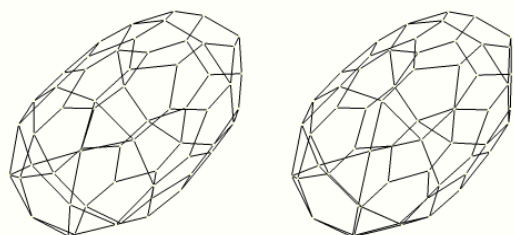
Volumen= 33.890, Oberfläche=54.876

Dekagonaler Zahngürtel mit 2 Dach
vermischt II+III



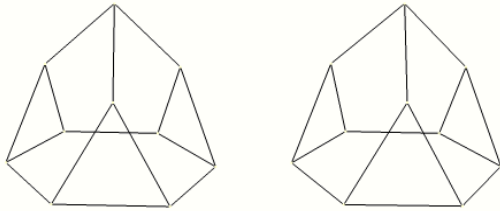
Volumen= 38.482, Oberfläche=60.643

Dekagonaler Zahngürtel mit 2 Dach
vermischt II+III, verdreht



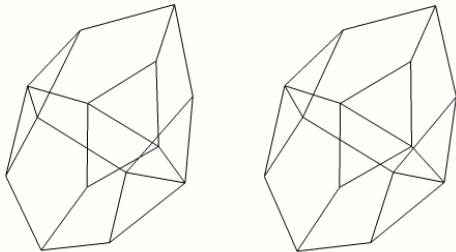
Volumen= 38.482, Oberfläche=60.643

7flach1 (von Enrico Bernal)



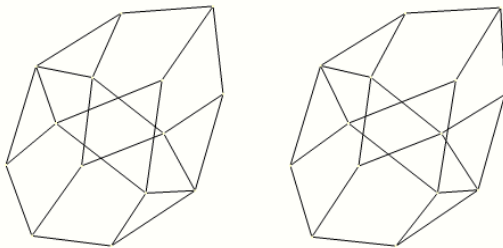
Volumen= 1.600, Oberfläche=8.794

2faches 7flach1 (von Enrico Bernal)



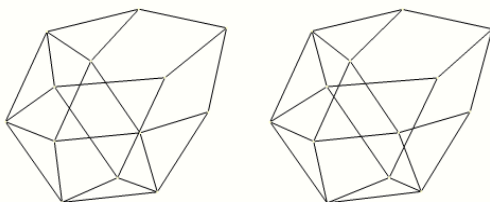
Volumen= 3.199, Oberfläche=12.392

2faches 7flach1, verdreht (von Enrico Bernal)



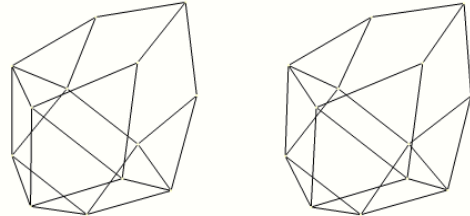
Volumen= 3.199, Oberfläche=12.392

7flach1+KuboO (von Enrico Bernal)



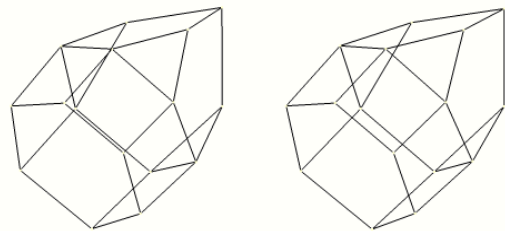
Volumen= 2.778, Oberfläche=10.928

7flach1+KuboO, verdreht (von Enrico Bernal)



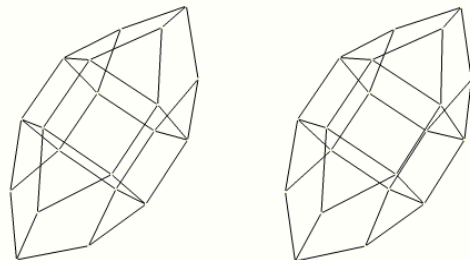
Volumen= 2.778, Oberfläche=10.928

Prisma+7flach1, 1 Dach(von Enrico Bernal)



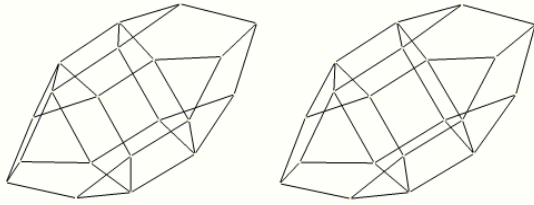
Volumen= 4.198, Oberfläche=14.794

Prisma+7flach1, 2 Dach (von Enrico Bernal)



Volumen= 5.797, Oberfläche=18.392

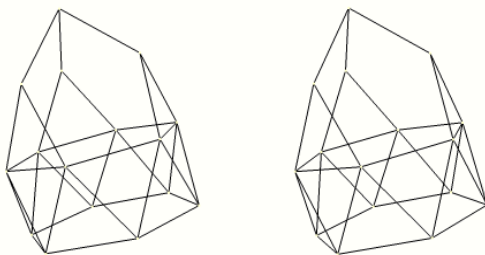
Prisma+7flach1, 2 Dach verdreht (von Enrico Bernal)



Volumen= 5.797, Oberfläche=18.392

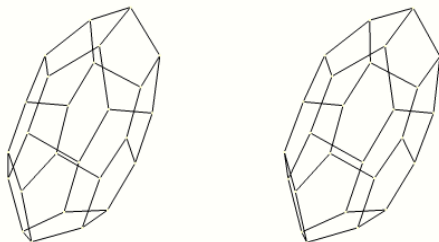
Nicht ausgeführt:
7flach1+Prisma+KuboO-Hälfte ohne/mit Verdrehung.

Antiprisma+7flach1



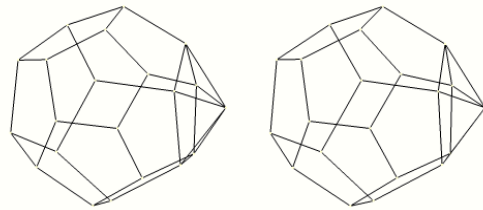
Ganz knapp NICHT konvex !
Antiprisma +7flach1, 2 Dach verdreht

3hexpent1 (von Enrico Bernal)



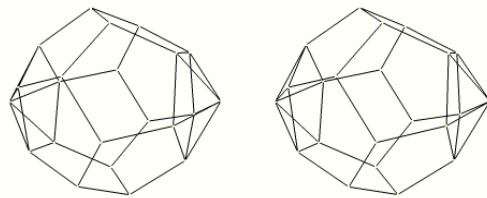
Volumen= 9.812, Oberfläche=27.286

Dodekaeder mit einer Haube



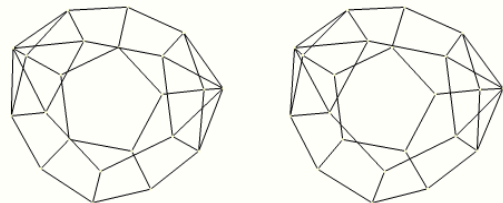
Volumen= 7.965, Oberfläche=21.090

Dodekaeder mit 2 Hauben (opponierend)



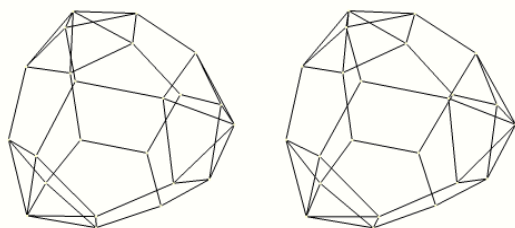
Volumen= 8.266, Oberfläche=21.535

Dodekaeder mit 2 Hauben (nicht opponierend)



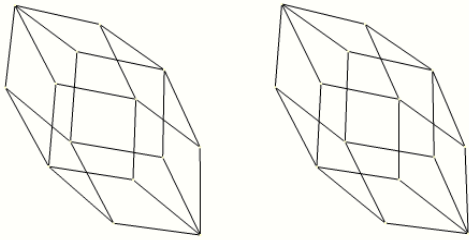
Volumen= 8.266, Oberfläche=21.535

Dodekaeder mit 3 Hauben



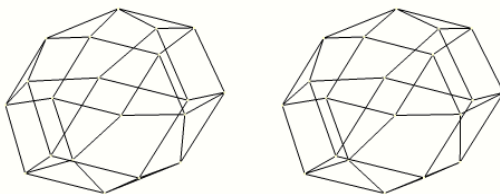
Volumen= 8.568, Oberfläche=21.980

3WinkelRhombododekaeder (von Enrico Bernal)



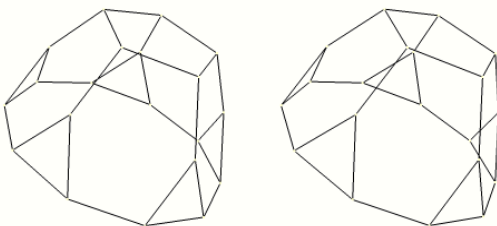
Volumen= 1.934, Oberfläche=9.681

Bernal 3;4;5-22-Flach ("Rautenzickzackgurt")



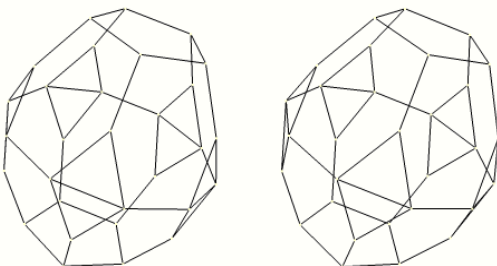
Volumen= 5.942, Oberfläche=17.282,
Rautenspitze=72°

Dom (von Enrico Bernal)



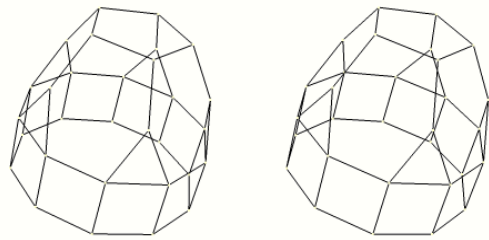
Volumen= 7.790, Oberfläche=24.035

Dom, doppelt



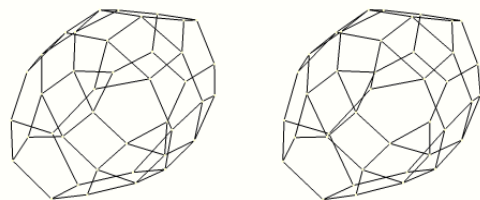
Volumen= 15.581, Oberfläche=32.682

Prisma mit 1 Dom



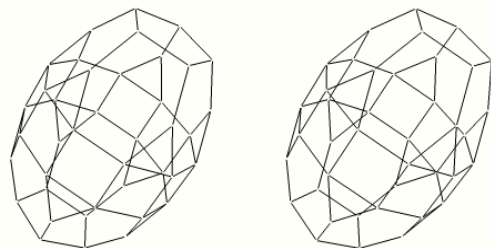
Volumen= 15.481, Oberfläche=34.035

Prisma mit 2 Dom



Volumen= 23.259, Oberfläche= 42.682

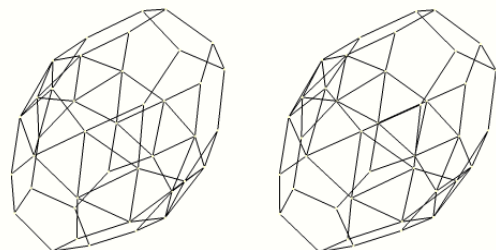
Prisma mit 2 Dom, verdreht



Volumen= 23.259, Oberfläche= 42.682

Antiprisma mit 1 Dom. Nicht ausgeführt.

Antiprisma mit 2 Dom

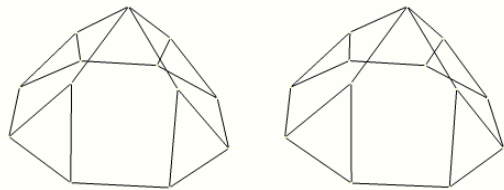


Volumen= 22.315, Oberfläche= 41.343

Jetzt ein paar Kombinationen, die ich nicht ausführe :

Antiprisma mit 2 Dom, verdreht
 Prisma 2Dach Mix AC
 Prisma 2Dach Mix AC verdreht
 Prisma 2Dach Mix BC
 Prisma 2Dach Mix BC verdreht
 Antiprisma 2Dach Mix AC
 Antiprisma 2Dach Mix AC verdreht
 Antiprisma 2Dach Mix BC
 Antiprisma 2Dach Mix BC verdreht

9Flach von Enrico Bernal



Volumen= 2.432, Oberfläche= 12.591

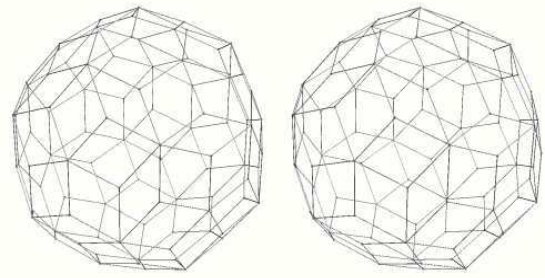
Wieder ein paar Kombinationen, die ich nicht ausführe:

9Flach doppelt
 9Flach doppelt verdreht
 9Flach + Prisma
 9Flach doppelt + Prisma
 9Flach doppelt verdreht + Prisma
 9Flach + AntiPrisma
 9Flach doppelt + AntiPrisma
 9Flach doppelt verdreht + APrisma
 9Flach Mix Prisma
 9Flach Mix Aprisma

OrchidPalms

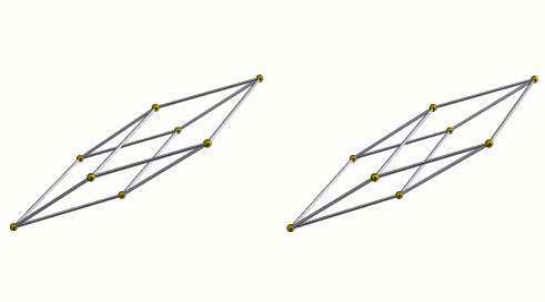
Zum Abschluss zeige ich noch 56 konvexe Gleichkanter, die ich auf folgender Webseite OrchidPalms gefunden habe
<http://www.orchidpalms.com/polyhedra/rhombic/icosarhom.htm>

10-ABCDEFGHJIJ



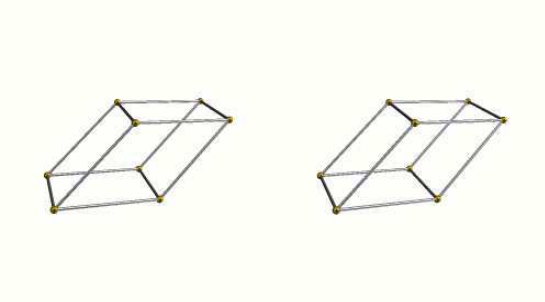
Volumen=61.370, Oberfläche=76.569,
 zwei Rautentypen: Spitze 41.81° und 70.53°

3-ABC



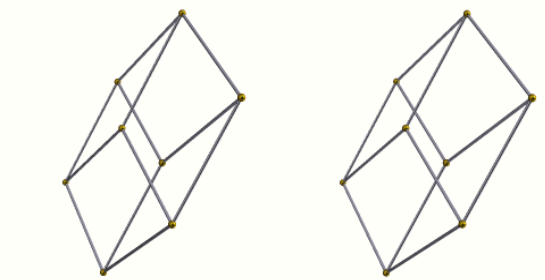
Volumen= 0.385, Oberfläche= 4.552

3-ACE



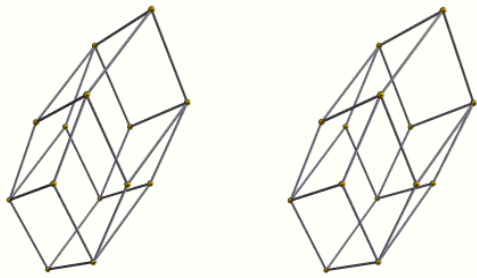
Volumen= 0.623, Oberfläche= 5.105

3-ADE



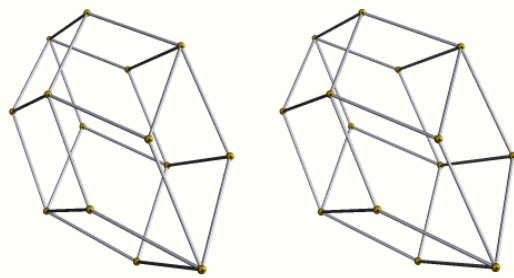
Volumen= 0.238, Oberfläche= 5.105

4-ABCD



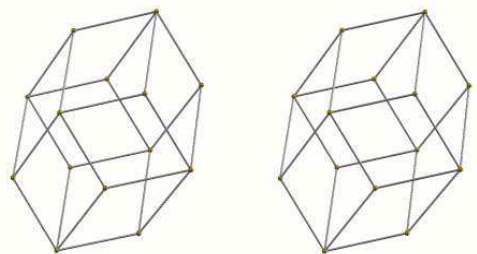
Volumen= 2.015, Oberfläche= 9.657

4-ABCE



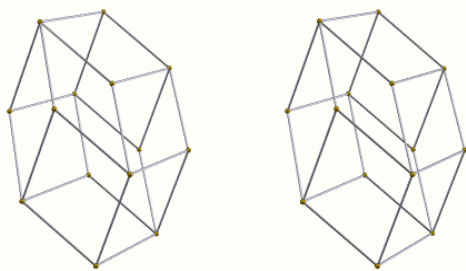
Volumen= 2.015, Oberfläche= 9.657

4-ABDE



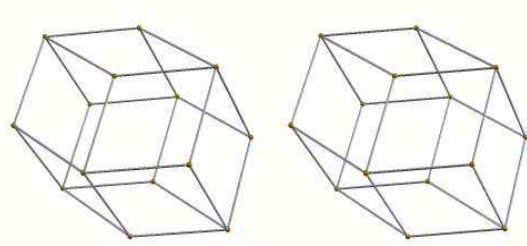
Volumen= 1.246, Oberfläche= 9.657

4-ACDE



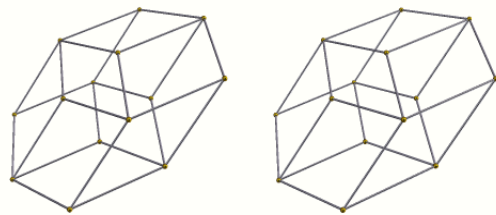
Volumen= 2.015, Oberfläche= 10.209

4-BCDE



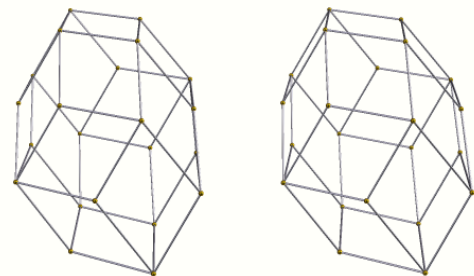
Volumen= 2.491, Oberfläche= 10.761

4-BCEF



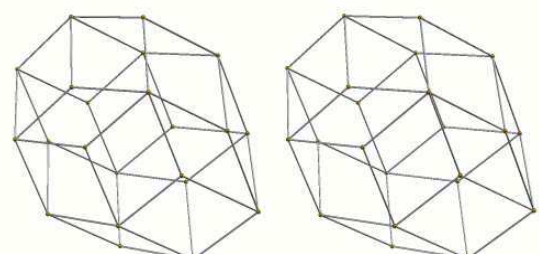
Volumen= 1.721, Oberfläche= 10.209

5-ABCDE



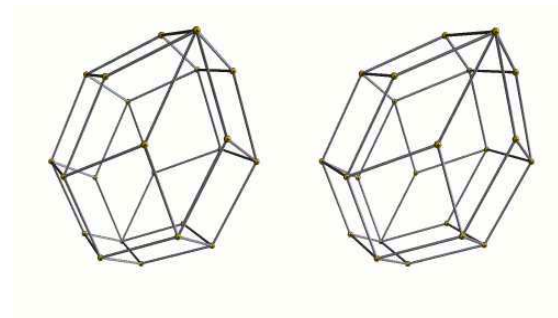
Volumen= 4.891, Oberfläche= 16.647

5-ABCEF



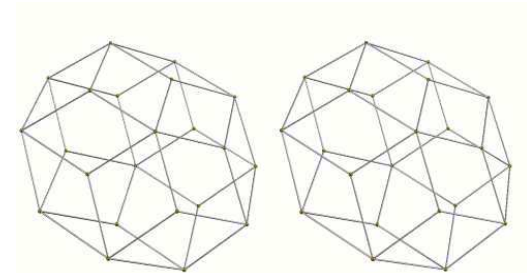
Volumen= 4.506, Oberfläche= 16.647

5-ABCEH



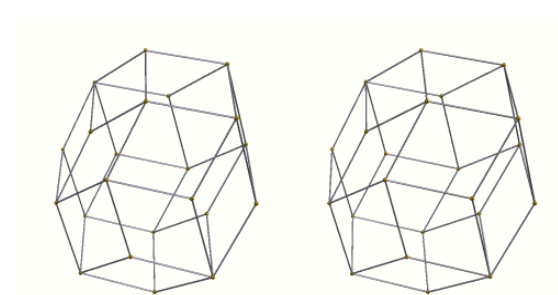
Volumen= 5.038, Oberfläche= 16.095

5-ACDGH



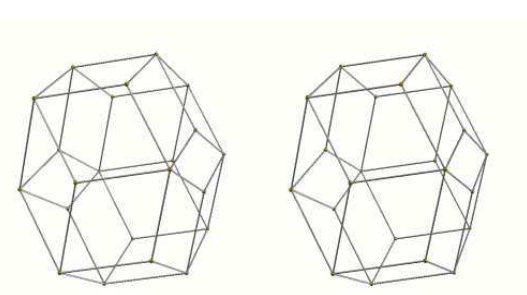
Volumen= 3.114, Oberfläche= 16.095

5-ABDEF



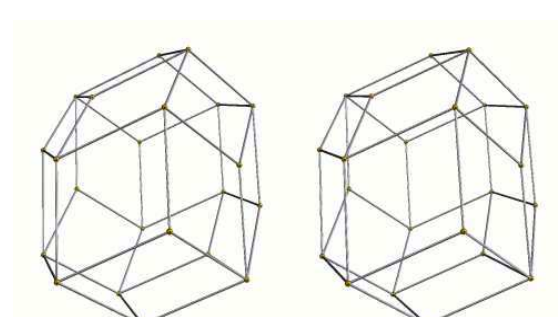
Volumen= 5.129, Oberfläche= 17.199

5-BCDEF



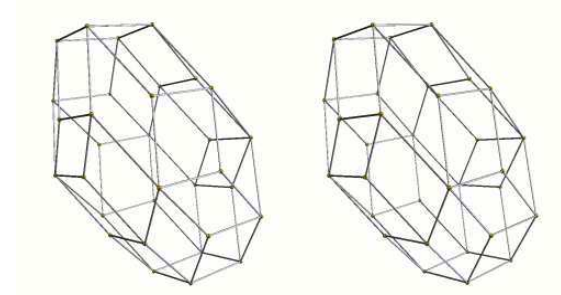
Volumen= 5.843, Oberfläche= 17.752

5-ABEFG



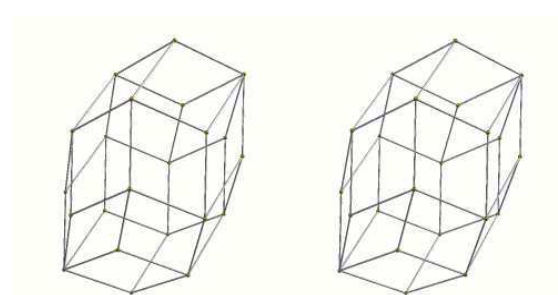
Volumen= 6.046, Oberfläche= 17.752

6-ABCDEF



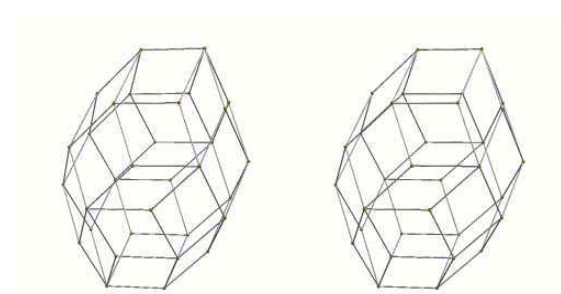
Volumen= 10.259, Oberfläche= 25.523

5-ACDEF



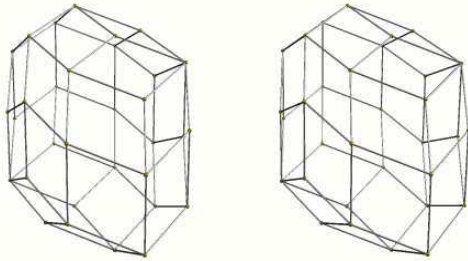
Volumen= 5.514, Oberfläche= 17.199

6-ABCDEH



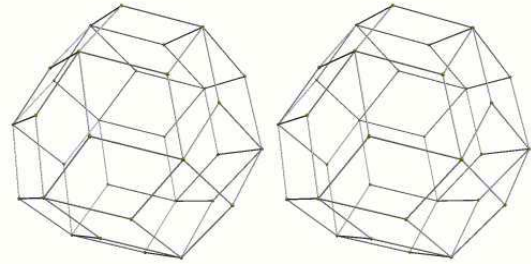
Volumen= 9.783, Oberfläche= 24.971

6-ABCDFH



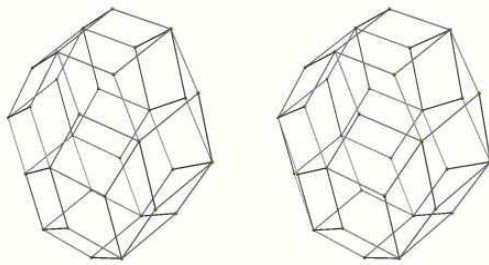
Volumen= 10.553, Oberfläche= 24.971

6-BCDEFG



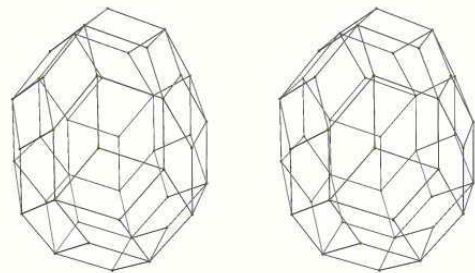
Volumen= 11.686, Oberfläche= 26.627

6-ABCDGH



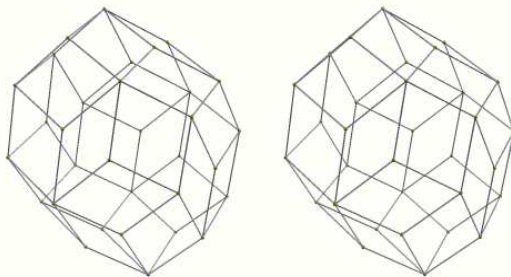
Volumen= 9.013, Oberfläche= 24.971

7-ABCDEFG



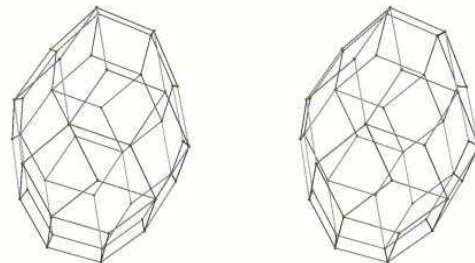
Volumen= 18.887, Oberfläche= 36.284

6-ABCEFG



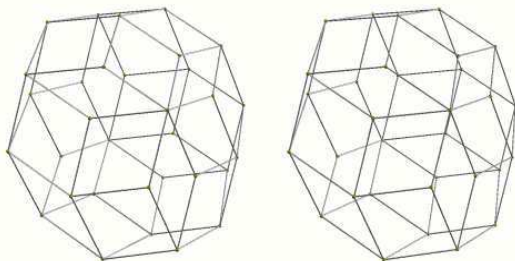
Volumen= 11.028, Oberfläche= 26.075

7-ABCDEFH



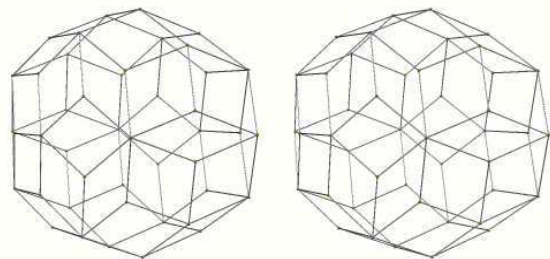
Volumen= 18.173, Oberfläche= 35.732

6-ABDEGH



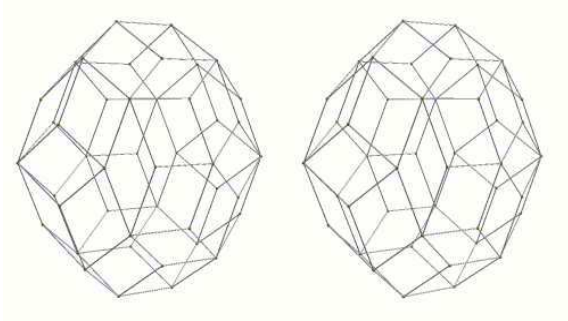
Volumen= 9.013, Oberfläche= 24.971

7-ABCDEGH



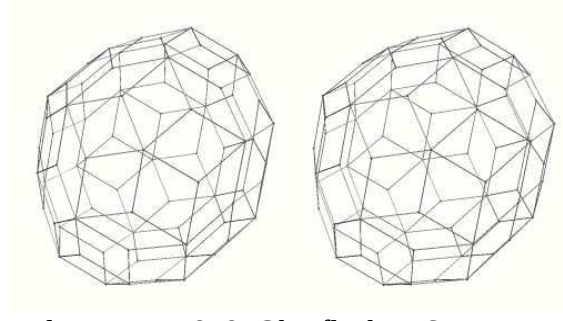
Volumen= 16.780, Oberfläche= 35.180

7-ABCDFGH



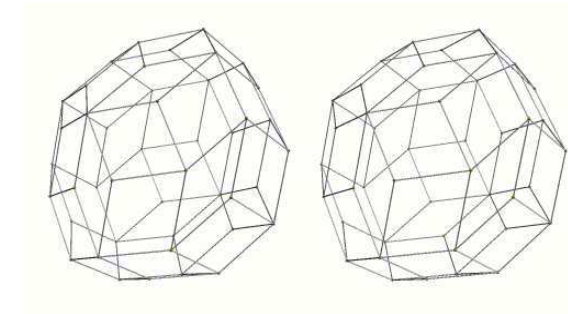
Volumen= 17.788, Oberfläche= 35.732

9-ABCDEFGH



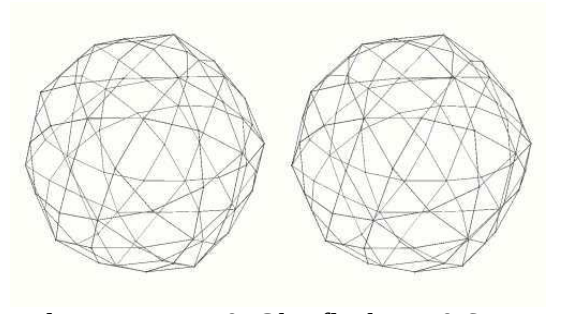
Volumen= 42.959, Oberfläche= 61.255

7-ABDEFGH



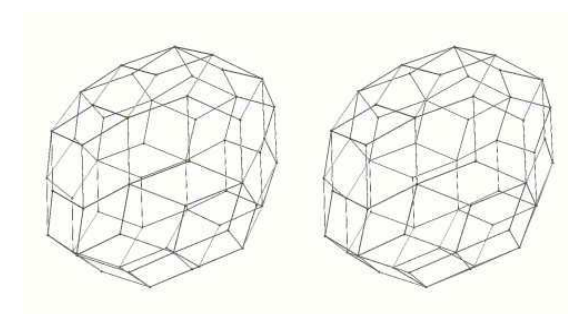
Volumen= 18.796, Oberfläche= 36.284

faceted-REC



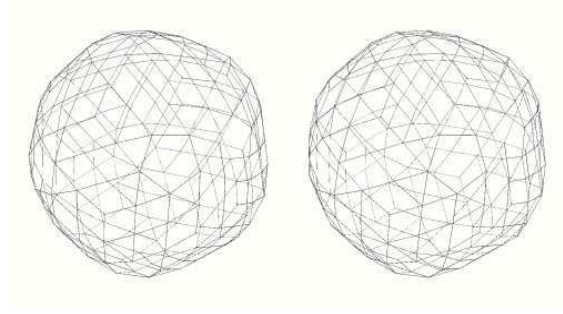
Volumen= 54.240, Oberfläche= 70.627

8-ABCDEFGH



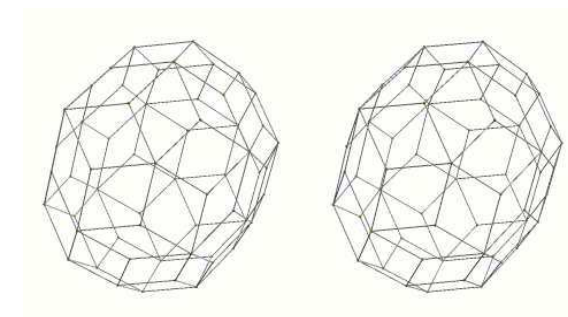
Volumen= 29.054, Oberfläche= 47.827

Fac-tetralinear



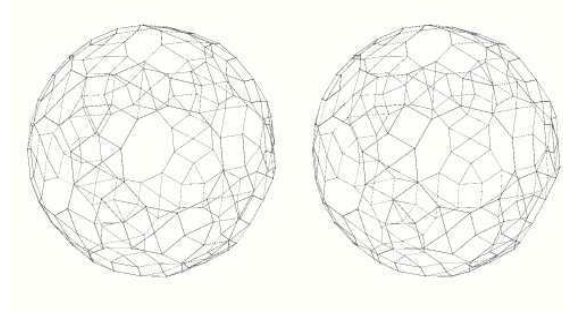
Volumen= 220.703, Oberfläche= 178.599

8-ABCDEFHI



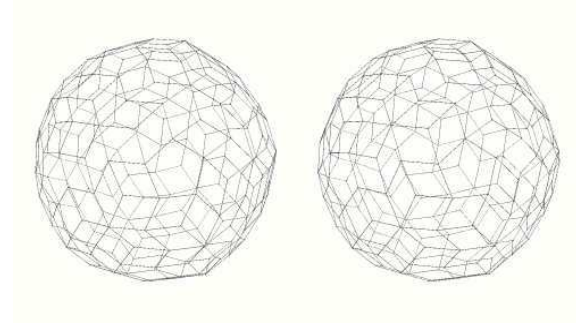
Volumen= 27.809, Oberfläche= 47.274

Pet-TD-Rhom



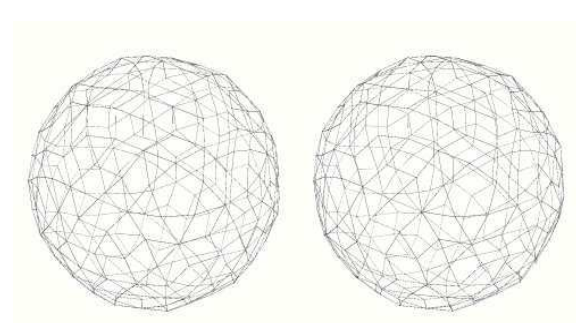
Volumen= 339.901, Oberfläche= 239.429

R3-rff-gsd-snid



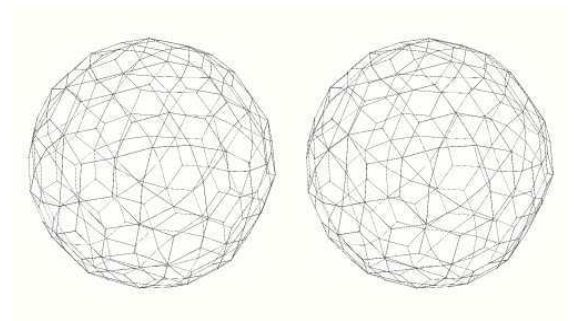
Volumen= 213.021, Oberfläche= 174.744

R3-rff-pet-td



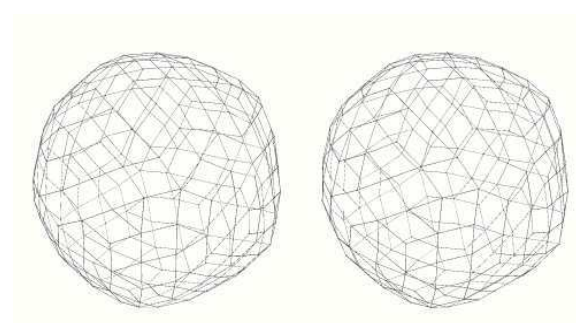
Volumen= 338.943, Oberfläche= 236.606

R3-rff-tid



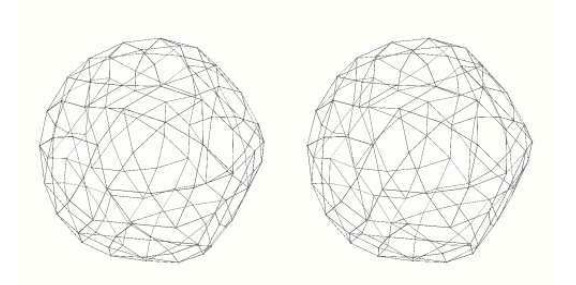
Volumen= 209.886, Oberfläche= 172.624

R3-tetralinear



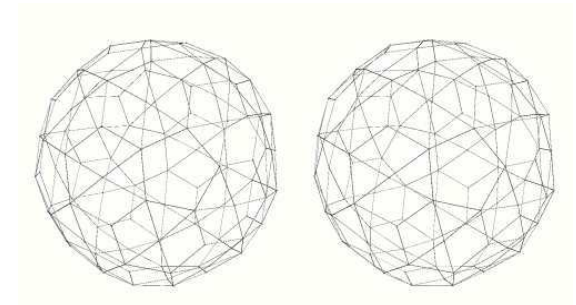
Volumen= 245.452, Oberfläche= 191.692

rff-td



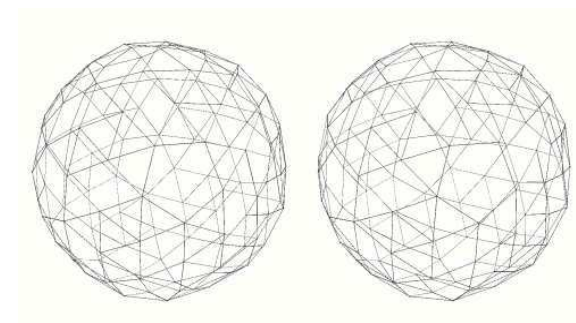
Volumen= 88.971, Oberfläche= 100.204

RK-c80



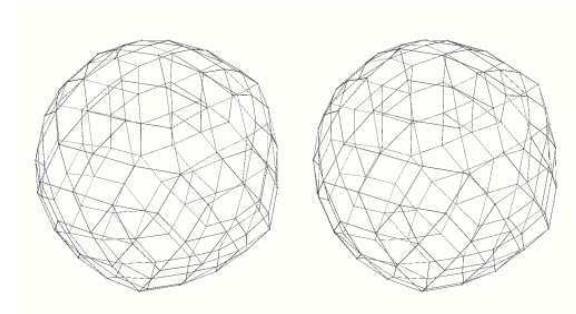
Volumen= 91.048, Oberfläche= 99.084

SnubRTC

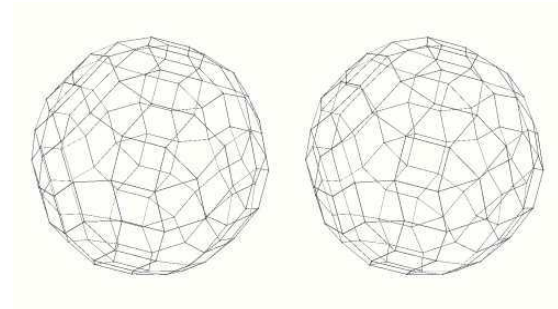


Volumen= 103.926, Oberfläche= 107.990

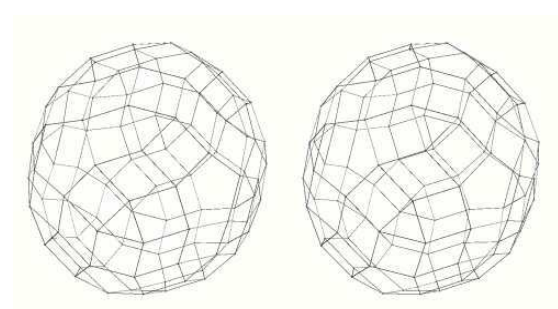
StelSnubRTC



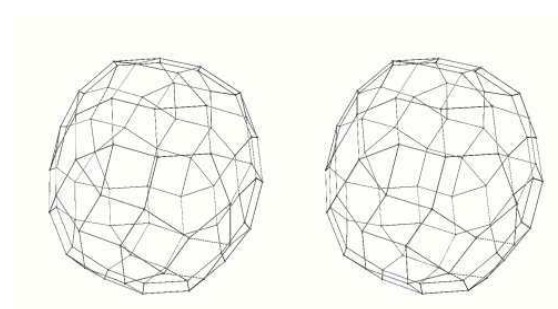
Volumen= 119.247, Oberfläche= 118.590

XRTC

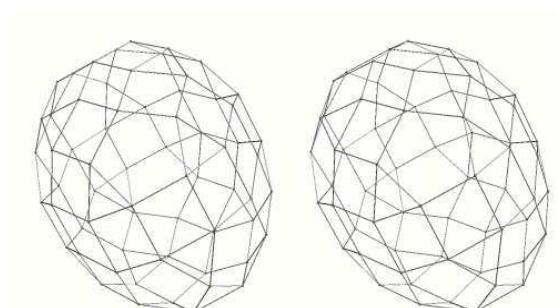
Volumen= 115.730, Oberfläche= 116.139

XRTC-r1

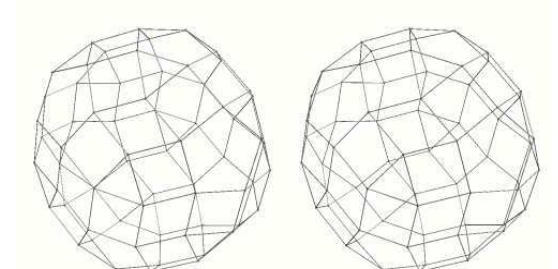
Volumen= 87.400, Oberfläche= 97.195

XRTC-r2

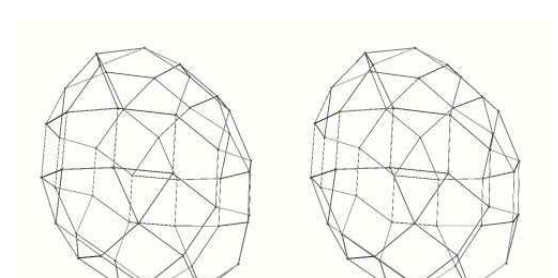
Volumen= 64.440, Oberfläche= 80.039

XRTC-r3a

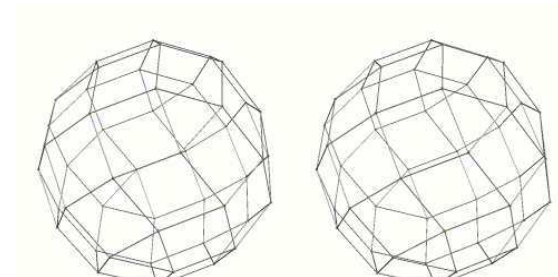
Volumen= 46.360, Oberfläche= 64.673

XRTC-r3b

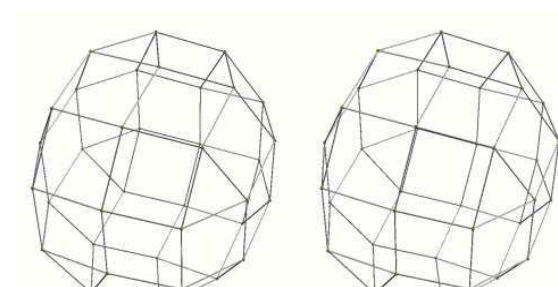
Volumen= 46.072, Oberfläche= 64.673

XRTC-r4

Volumen= 32.118, Oberfläche= 51.095

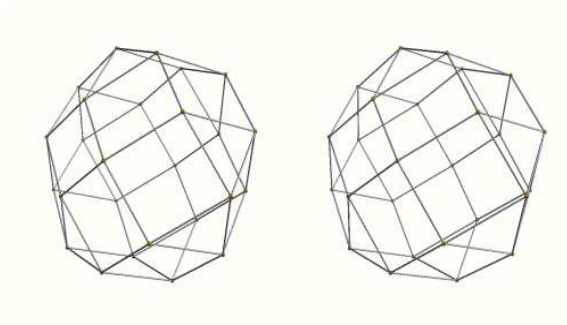
XRD

Volumen= 27.142, Oberfläche= 44.778

XRD-r1

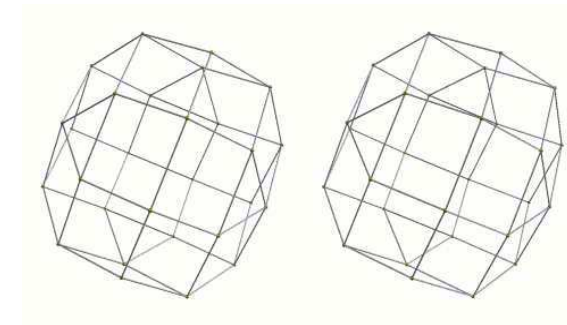
Volumen= 16.578, Oberfläche= 33.121

XRD-r2



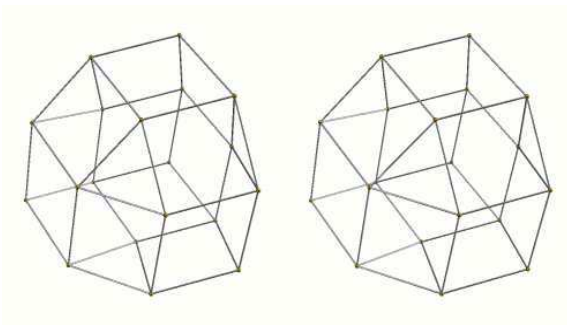
Volumen= 9.439, Oberfläche= 23.350

TXRD



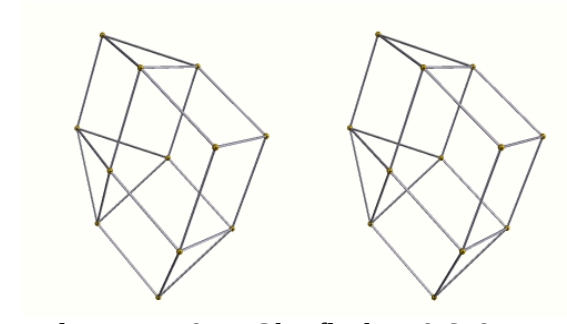
Volumen= 10.586, Oberfläche= 25.046

TXRD-r1



Volumen= 5.015, Oberfläche= 16.389

TXRD-r2



Volumen= 1.927, Oberfläche= 9.618

Zum Abschluss:

Beachtet das faszinierende Konzept der Zonohedrifizierung von George Hart, die die Konvexität und die Gleichkantigkeit von konvexen Gleichkantern erhält:

<http://www.georgehart.com/zonohedra/zonohedrification.html>

Das Programm GreatStella beherrscht die Zonohedrifizierung.

Der Blickfang auf meiner Webseite für die Gleichkanter (das „liegende Ei“) ist ein zweimal zonohedrifiziertes Bügeleisen.

Hier zeige ich das Bügeleisen:

