Rank-65922 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

$$X_0^3 + X_1^3 + X_2^3 + X_3^3 + X_0^2 X_1 + X_0^2 X_2 + X_0^2 X_3 + X_1^2 X_2 + X_0 X_1 X_2 = 0$$

(1, 1, 1, 1, 1, 1, 1, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0)
The point rank of the equation over GF(32) is -2078209978

General information

Number of lines	0
Number of points	993
Number of singular points	0
Number of Eckardt points	0
Number of double points	0
Number of single points	0
Number of points off lines	993
Number of Hesse planes	0
Number of axes	0
Type of points on lines	
Type of lines on points	0^{993}

Singular Points

The surface has 0 singular points:

The 0 Lines

The lines and their Pluecker coordinates are:
Rank of lines: ( )
Rank of points on Klein quadric: ( )

Eckardt Points

The surface has 0 Eckardt points:

Double Points

The surface has 0 Double points:
The double points on the surface are:

Single Points

The surface has 0 single points:
The single points on the surface are:

The single points on the surface are:

Points on surface but on no line

The surface has 993 points not on any line:
The points on the surface but not on lines are:

$0 : P_{1090} = (0, 1, 0, 1)$

$1 : P_{1127} = (5, 2, 0, 1)$

$2 : P_{1162} = (8, 3, 0, 1)$

$3 : P_{1177} = (23, 3, 0, 1)$

$4 : P_{1183} = (29, 3, 0, 1)$

$5 : P_{1203} = (17, 4, 0, 1)$

$6 : P_{1228} = (10, 5, 0, 1)$

$7 : P_{1240} = (22, 5, 0, 1)$

$8 : P_{1242} = (24, 5, 0, 1)$

$9 : P_{1286} = (4, 7, 0, 1)$

$10 : P_{1298} = (16, 7, 0, 1)$

$11 : P_{1300} = (18, 7, 0, 1)$

$12 : P_{1359} = (13, 9, 0, 1)$

$13 : P_{1437} = (27, 11, 0, 1)$

$14 : P_{1448} = (6, 12, 0, 1)$

$15 : P_{1463} = (21, 12, 0, 1)$

$16 : P_{1472} = (30, 12, 0, 1)$

$17 : P_{1500} = (26, 13, 0, 1)$

$18 : P_{1540} = (2, 15, 0, 1)$

$19 : P_{1582} = (12, 16, 0, 1)$

$20 : P_{1609} = (7, 17, 0, 1)$

$21 : P_{1616} = (14, 17, 0, 1)$

$22 : P_{1627} = (25, 17, 0, 1)$

$23 : P_{1650} = (16, 18, 0, 1)$

$24 : P_{1739} = (9, 21, 0, 1)$

$25 : P_{1743} = (13, 21, 0, 1)$

$26 : P_{1746} = (16, 21, 0, 1)$

$27 : P_{1796} = (2, 23, 0, 1)$

$28 : P_{1809} = (15, 23, 0, 1)$

$29 : P_{1821} = (27, 23, 0, 1)$

$30 : P_{1828} = (2, 24, 0, 1)$

$31 : P_{1830} = (4, 24, 0, 1)$

$32 : P_{1857} = (31, 24, 0, 1)$

$33 : P_{1909} = (19, 26, 0, 1)$

$34 : P_{1910} = (20, 26, 0, 1)$

$35 : P_{1918} = (28, 26, 0, 1)$

$36 : P_{1925} = (3, 27, 0, 1)$

$37 : P_{1965} = (11, 28, 0, 1)$

$38 : P_{1967} = (13, 28, 0, 1)$

$39 : P_{1981} = (27, 28, 0, 1)$

$40 : P_{2054} = (4, 31, 0, 1)$

$41 : P_{2082} = (0, 0, 1, 1)$

$42 : P_{2114} = (0, 1, 1, 1)$

$43 : P_{2188} = (11, 3, 1, 1)$

$44 : P_{2200} = (23, 3, 1, 1)$

$45 : P_{2208} = (31, 3, 1, 1)$

$46 : P_{2256} = (15, 5, 1, 1)$

$47 : P_{2259} = (18, 5, 1, 1)$

$48 : P_{2265} = (24, 5, 1, 1)$

$49 : P_{2294} = (21, 6, 1, 1)$

$50 : P_{2355} = (18, 8, 1, 1)$

$51 : P_{2376} = (7, 9, 1, 1)$

$52 : P_{2410} = (9, 10, 1, 1)$

$53 : P_{2454} = (21, 11, 1, 1)$

$54 : P_{2476} = (11, 12, 1, 1)$
$55 : P_{2483} = (18, 12, 1, 1)$
$56 : P_{2486} = (21, 12, 1, 1)$
$57 : P_{2540} = (11, 14, 1, 1)$
$58 : P_{2589} = (28, 15, 1, 1)$
$59 : P_{2632} = (7, 17, 1, 1)$
$60 : P_{2634} = (9, 17, 1, 1)$
$61 : P_{2656} = (31, 17, 1, 1)$
$62 : P_{2681} = (24, 18, 1, 1)$
$63 : P_{2720} = (31, 19, 1, 1)$
$64 : P_{2749} = (28, 20, 1, 1)$
$65 : P_{2809} = (24, 22, 1, 1)$
$66 : P_{2888} = (7, 25, 1, 1)$
$67 : P_{2922} = (9, 26, 1, 1)$
$68 : P_{2928} = (15, 26, 1, 1)$
$69 : P_{2941} = (28, 26, 1, 1)$
$70 : P_{3032} = (23, 29, 1, 1)$
$71 : P_{3056} = (15, 30, 1, 1)$
$72 : P_{3096} = (23, 31, 1, 1)$
$73 : P_{3110} = (5, 0, 2, 1)$
$74 : P_{3157} = (20, 1, 2, 1)$
$75 : P_{3185} = (16, 2, 2, 1)$
$76 : P_{3270} = (5, 5, 2, 1)$
$77 : P_{3320} = (23, 6, 2, 1)$
$78 : P_{3334} = (5, 7, 2, 1)$
$79 : P_{3357} = (28, 7, 2, 1)$
$80 : P_{3358} = (29, 7, 2, 1)$
$81 : P_{3379} = (18, 8, 2, 1)$
$82 : P_{3436} = (11, 10, 2, 1)$
$83 : P_{3437} = (12, 10, 2, 1)$
$84 : P_{3439} = (14, 10, 2, 1)$
$85 : P_{3523} = (2, 13, 2, 1)$
$86 : P_{3540} = (19, 13, 2, 1)$
$87 : P_{3552} = (31, 13, 2, 1)$
$88 : P_{3593} = (8, 15, 2, 1)$
$89 : P_{3680} = (31, 17, 2, 1)$
$90 : P_{3704} = (23, 18, 2, 1)$
$91 : P_{3729} = (16, 19, 2, 1)$
$92 : P_{3739} = (26, 19, 2, 1)$
$93 : P_{3762} = (17, 20, 2, 1)$
$94 : P_{3779} = (2, 21, 2, 1)$
$95 : P_{3821} = (12, 22, 2, 1)$
$96 : P_{3823} = (14, 22, 2, 1)$
$97 : P_{3832} = (23, 22, 2, 1)$
$98 : P_{3856} = (15, 23, 2, 1)$
$99 : P_{3894} = (21, 24, 2, 1)$
$100 : P_{3915} = (10, 25, 2, 1)$
$101 : P_{3939} = (2, 26, 2, 1)$
$102 : P_{4077} = (12, 30, 2, 1)$
$103 : P_{4079} = (14, 30, 2, 1)$
$104 : P_{4096} = (31, 30, 2, 1)$
$105 : P_{4137} = (8, 0, 3, 1)$
$106 : P_{4152} = (23, 0, 3, 1)$
$107 : P_{4158} = (29, 0, 3, 1)$

$108 : P_{4177} = (16, 1, 3, 1)$
$109 : P_{4202} = (9, 2, 3, 1)$
$110 : P_{4229} = (4, 3, 3, 1)$
$111 : P_{4321} = (0, 6, 3, 1)$
$112 : P_{4330} = (9, 6, 3, 1)$
$113 : P_{4334} = (13, 6, 3, 1)$
$114 : P_{4362} = (9, 7, 3, 1)$
$115 : P_{4375} = (22, 7, 3, 1)$
$116 : P_{4379} = (26, 7, 3, 1)$
$117 : P_{4393} = (8, 8, 3, 1)$
$118 : P_{4401} = (16, 8, 3, 1)$
$119 : P_{4403} = (18, 8, 3, 1)$
$120 : P_{4465} = (16, 10, 3, 1)$
$121 : P_{4489} = (8, 11, 3, 1)$
$122 : P_{4551} = (6, 13, 3, 1)$
$123 : P_{4598} = (21, 14, 3, 1)$
$124 : P_{4611} = (2, 15, 3, 1)$
$125 : P_{4629} = (20, 15, 3, 1)$
$126 : P_{4636} = (27, 15, 3, 1)$
$127 : P_{4704} = (31, 17, 3, 1)$
$128 : P_{4792} = (23, 20, 3, 1)$
$129 : P_{4805} = (4, 21, 3, 1)$
$130 : P_{4848} = (15, 22, 3, 1)$
$131 : P_{4853} = (20, 22, 3, 1)$
$132 : P_{4888} = (23, 23, 3, 1)$
$133 : P_{4900} = (3, 24, 3, 1)$
$134 : P_{4902} = (5, 24, 3, 1)$
$135 : P_{4925} = (28, 24, 3, 1)$
$136 : P_{4961} = (0, 26, 3, 1)$
$137 : P_{4973} = (12, 26, 3, 1)$
$138 : P_{4981} = (20, 26, 3, 1)$
$139 : P_{5042} = (17, 28, 3, 1)$
$140 : P_{5086} = (29, 29, 3, 1)$
$141 : P_{5118} = (29, 30, 3, 1)$
$142 : P_{5121} = (0, 31, 3, 1)$
$143 : P_{5170} = (17, 0, 4, 1)$
$144 : P_{5214} = (29, 1, 4, 1)$
$145 : P_{5253} = (4, 3, 4, 1)$
$146 : P_{5294} = (13, 4, 4, 1)$
$147 : P_{5359} = (14, 6, 4, 1)$
$148 : P_{5405} = (28, 7, 4, 1)$
$149 : P_{5412} = (3, 8, 4, 1)$
$150 : P_{5422} = (13, 8, 4, 1)$
$151 : P_{5465} = (24, 9, 4, 1)$
$152 : P_{5482} = (9, 10, 4, 1)$
$153 : P_{5555} = (18, 12, 4, 1)$
$154 : P_{5616} = (15, 14, 4, 1)$
$155 : P_{5627} = (26, 14, 4, 1)$
$156 : P_{5631} = (30, 14, 4, 1)$
$157 : P_{5714} = (17, 17, 4, 1)$
$158 : P_{5779} = (18, 19, 4, 1)$
$159 : P_{5787} = (26, 19, 4, 1)$
$160 : P_{5791} = (30, 19, 4, 1)$
$161 : P_{5817} = (24, 20, 4, 1)$

$162: P_{5842} = (17, 21, 4, 1)$
$163: P_{5847} = (22, 21, 4, 1)$
$164: P_{5848} = (23, 21, 4, 1)$
$165: P_{5952} = (31, 24, 4, 1)$
$166: P_{5977} = (24, 25, 4, 1)$
$167: P_{5979} = (26, 25, 4, 1)$
$168: P_{5983} = (30, 25, 4, 1)$
$169: P_{6021} = (4, 27, 4, 1)$
$170: P_{6025} = (8, 27, 4, 1)$
$171: P_{6035} = (18, 27, 4, 1)$
$172: P_{6053} = (4, 28, 4, 1)$
$173: P_{6093} = (12, 29, 4, 1)$
$174: P_{6155} = (10, 31, 4, 1)$
$175: P_{6187} = (10, 0, 5, 1)$
$176: P_{6199} = (22, 0, 5, 1)$
$177: P_{6201} = (24, 0, 5, 1)$
$178: P_{6222} = (13, 1, 5, 1)$
$179: P_{6273} = (0, 3, 5, 1)$
$180: P_{6299} = (26, 3, 5, 1)$
$181: P_{6302} = (29, 3, 5, 1)$
$182: P_{6316} = (11, 4, 5, 1)$
$183: P_{6353} = (16, 5, 5, 1)$
$184: P_{6406} = (5, 7, 5, 1)$
$185: P_{6418} = (17, 7, 5, 1)$
$186: P_{6424} = (23, 7, 5, 1)$
$187: P_{6506} = (9, 10, 5, 1)$
$188: P_{6507} = (10, 10, 5, 1)$
$189: P_{6510} = (13, 10, 5, 1)$
$190: P_{6579} = (18, 12, 5, 1)$
$191: P_{6638} = (13, 14, 5, 1)$
$192: P_{6667} = (10, 15, 5, 1)$
$193: P_{6753} = (0, 18, 5, 1)$
$194: P_{6807} = (22, 19, 5, 1)$
$195: P_{6817} = (0, 20, 5, 1)$
$196: P_{6828} = (11, 20, 5, 1)$
$197: P_{6844} = (27, 20, 5, 1)$
$198: P_{6852} = (3, 21, 5, 1)$
$199: P_{6860} = (11, 21, 5, 1)$
$200: P_{6874} = (25, 21, 5, 1)$
$201: P_{6903} = (22, 22, 5, 1)$
$202: P_{6925} = (12, 23, 5, 1)$
$203: P_{6969} = (24, 24, 5, 1)$
$204: P_{7006} = (29, 25, 5, 1)$
$205: P_{7008} = (31, 25, 5, 1)$
$206: P_{7061} = (20, 27, 5, 1)$
$207: P_{7089} = (16, 28, 5, 1)$
$208: P_{7129} = (24, 29, 5, 1)$
$209: P_{7165} = (28, 30, 5, 1)$
$210: P_{7171} = (2, 31, 5, 1)$
$211: P_{7173} = (4, 31, 5, 1)$
$212: P_{7198} = (29, 31, 5, 1)$
$213: P_{7328} = (31, 3, 6, 1)$
$214: P_{7341} = (12, 4, 6, 1)$
$215: P_{7361} = (0, 5, 6, 1)$

$216: P_{7421} = (28, 6, 6, 1)$
$217: P_{7453} = (28, 7, 6, 1)$
$218: P_{7527} = (6, 10, 6, 1)$
$219: P_{7538} = (17, 10, 6, 1)$
$220: P_{7547} = (26, 10, 6, 1)$
$221: P_{7590} = (5, 12, 6, 1)$
$222: P_{7668} = (19, 14, 6, 1)$
$223: P_{7727} = (14, 16, 6, 1)$
$224: P_{7749} = (4, 17, 6, 1)$
$225: P_{7755} = (10, 17, 6, 1)$
$226: P_{7769} = (24, 17, 6, 1)$
$227: P_{7835} = (26, 19, 6, 1)$
$228: P_{7880} = (7, 21, 6, 1)$
$229: P_{7940} = (3, 23, 6, 1)$
$230: P_{7998} = (29, 24, 6, 1)$
$231: P_{8041} = (8, 26, 6, 1)$
$232: P_{8080} = (15, 27, 6, 1)$
$233: P_{8110} = (13, 28, 6, 1)$
$234: P_{8202} = (9, 31, 6, 1)$
$235: P_{8204} = (11, 31, 6, 1)$
$236: P_{8219} = (26, 31, 6, 1)$
$237: P_{8229} = (4, 0, 7, 1)$
$238: P_{8241} = (16, 0, 7, 1)$
$239: P_{8243} = (18, 0, 7, 1)$
$240: P_{8302} = (13, 2, 7, 1)$
$241: P_{8325} = (4, 3, 7, 1)$
$242: P_{8351} = (30, 3, 7, 1)$
$243: P_{8352} = (31, 3, 7, 1)$
$244: P_{8357} = (4, 4, 7, 1)$
$245: P_{8393} = (8, 5, 7, 1)$
$246: P_{8428} = (11, 6, 7, 1)$
$247: P_{8454} = (5, 7, 7, 1)$
$248: P_{8476} = (27, 7, 7, 1)$
$249: P_{8480} = (31, 7, 7, 1)$
$250: P_{8486} = (5, 8, 7, 1)$
$251: P_{8502} = (21, 8, 7, 1)$
$252: P_{8511} = (30, 8, 7, 1)$
$253: P_{8609} = (0, 12, 7, 1)$
$254: P_{8629} = (20, 12, 7, 1)$
$255: P_{8639} = (30, 12, 7, 1)$
$256: P_{8729} = (24, 15, 7, 1)$
$257: P_{8748} = (11, 16, 7, 1)$
$258: P_{8750} = (13, 16, 7, 1)$
$259: P_{8753} = (16, 16, 7, 1)$
$260: P_{8780} = (11, 17, 7, 1)$
$261: P_{8819} = (18, 18, 7, 1)$
$262: P_{8828} = (27, 18, 7, 1)$
$263: P_{8830} = (29, 18, 7, 1)$
$264: P_{8886} = (21, 20, 7, 1)$
$265: P_{8909} = (12, 21, 7, 1)$
$266: P_{8910} = (13, 21, 7, 1)$
$267: P_{8915} = (18, 21, 7, 1)$
$268: P_{8936} = (7, 22, 7, 1)$
$269: P_{8977} = (16, 23, 7, 1)$

$270: P_{9003} = (10, 24, 7, 1)$
$271: P_{9047} = (22, 25, 7, 1)$
$272: P_{9110} = (21, 27, 7, 1)$
$273: P_{9127} = (6, 28, 7, 1)$
$274: P_{9187} = (2, 30, 7, 1)$
$275: P_{9302} = (21, 1, 8, 1)$
$276: P_{9388} = (11, 4, 8, 1)$
$277: P_{9402} = (25, 4, 8, 1)$
$278: P_{9408} = (31, 4, 8, 1)$
$279: P_{9420} = (11, 5, 8, 1)$
$280: P_{9448} = (7, 6, 8, 1)$
$281: P_{9456} = (15, 6, 8, 1)$
$282: P_{9530} = (25, 8, 8, 1)$
$283: P_{9548} = (11, 9, 8, 1)$
$284: P_{9560} = (23, 9, 8, 1)$
$285: P_{9565} = (28, 9, 8, 1)$
$286: P_{9609} = (8, 11, 8, 1)$
$287: P_{9647} = (14, 12, 8, 1)$
$288: P_{9709} = (12, 14, 8, 1)$
$289: P_{9940} = (19, 21, 8, 1)$
$290: P_{9971} = (18, 22, 8, 1)$
$291: P_{9994} = (9, 23, 8, 1)$
$292: P_{10027} = (10, 24, 8, 1)$
$293: P_{10084} = (3, 26, 8, 1)$
$294: P_{10087} = (6, 26, 8, 1)$
$295: P_{10103} = (22, 26, 8, 1)$
$296: P_{10265} = (24, 31, 8, 1)$
$297: P_{10286} = (13, 0, 9, 1)$
$298: P_{10320} = (15, 1, 9, 1)$
$299: P_{10367} = (30, 2, 9, 1)$
$300: P_{10383} = (14, 3, 9, 1)$
$301: P_{10414} = (13, 4, 9, 1)$
$302: P_{10464} = (31, 5, 9, 1)$
$303: P_{10476} = (11, 6, 9, 1)$
$304: P_{10580} = (19, 9, 9, 1)$
$305: P_{10651} = (26, 11, 9, 1)$
$306: P_{10702} = (13, 13, 9, 1)$
$307: P_{10707} = (18, 13, 9, 1)$
$308: P_{10715} = (26, 13, 9, 1)$
$309: P_{10748} = (27, 14, 9, 1)$
$310: P_{10758} = (5, 15, 9, 1)$
$311: P_{10777} = (24, 15, 9, 1)$
$312: P_{10779} = (26, 15, 9, 1)$
$313: P_{10897} = (16, 19, 9, 1)$
$314: P_{10899} = (18, 19, 9, 1)$
$315: P_{10906} = (25, 19, 9, 1)$
$316: P_{10991} = (14, 22, 9, 1)$
$317: P_{11027} = (18, 23, 9, 1)$
$318: P_{11041} = (0, 24, 9, 1)$
$319: P_{11178} = (9, 28, 9, 1)$
$320: P_{11183} = (14, 28, 9, 1)$
$321: P_{11188} = (19, 28, 9, 1)$
$322: P_{11211} = (10, 29, 9, 1)$
$323: P_{11222} = (21, 29, 9, 1)$

$324: P_{11237} = (4, 30, 9, 1)$
$325: P_{11239} = (6, 30, 9, 1)$
$326: P_{11253} = (20, 30, 9, 1)$
$327: P_{11357} = (28, 1, 10, 1)$
$328: P_{11398} = (5, 3, 10, 1)$
$329: P_{11413} = (20, 3, 10, 1)$
$330: P_{11418} = (25, 3, 10, 1)$
$331: P_{11535} = (14, 7, 10, 1)$
$332: P_{11623} = (6, 10, 10, 1)$
$333: P_{11664} = (15, 11, 10, 1)$
$334: P_{11672} = (23, 11, 10, 1)$
$335: P_{11673} = (24, 11, 10, 1)$
$336: P_{11787} = (10, 15, 10, 1)$
$337: P_{11815} = (6, 16, 10, 1)$
$338: P_{11824} = (15, 16, 10, 1)$
$339: P_{11827} = (18, 16, 10, 1)$
$340: P_{11856} = (15, 17, 10, 1)$
$341: P_{11880} = (7, 18, 10, 1)$
$342: P_{11958} = (21, 20, 10, 1)$
$343: P_{11968} = (31, 20, 10, 1)$
$344: P_{12076} = (11, 24, 10, 1)$
$345: P_{12106} = (9, 25, 10, 1)$
$346: P_{12159} = (30, 26, 10, 1)$
$347: P_{12201} = (8, 28, 10, 1)$
$348: P_{12283} = (26, 30, 10, 1)$
$349: P_{12348} = (27, 0, 11, 1)$
$350: P_{12384} = (31, 1, 11, 1)$
$351: P_{12468} = (19, 4, 11, 1)$
$352: P_{12511} = (30, 5, 11, 1)$
$353: P_{12545} = (0, 7, 11, 1)$
$354: P_{12583} = (6, 8, 11, 1)$
$355: P_{12586} = (9, 8, 11, 1)$
$356: P_{12590} = (13, 8, 11, 1)$
$357: P_{12681} = (8, 11, 11, 1)$
$358: P_{12804} = (3, 15, 11, 1)$
$359: P_{12860} = (27, 16, 11, 1)$
$360: P_{12883} = (18, 17, 11, 1)$
$361: P_{12945} = (16, 19, 11, 1)$
$362: P_{12949} = (20, 19, 11, 1)$
$363: P_{12958} = (29, 19, 11, 1)$
$364: P_{12976} = (15, 20, 11, 1)$
$365: P_{13039} = (14, 22, 11, 1)$
$366: P_{13053} = (28, 22, 11, 1)$
$367: P_{13065} = (8, 23, 11, 1)$
$368: P_{13068} = (11, 23, 11, 1)$
$369: P_{13087} = (30, 23, 11, 1)$
$370: P_{13098} = (9, 24, 11, 1)$
$371: P_{13151} = (30, 25, 11, 1)$
$372: P_{13188} = (3, 27, 11, 1)$
$373: P_{13194} = (9, 27, 11, 1)$
$374: P_{13212} = (27, 27, 11, 1)$
$375: P_{13283} = (2, 30, 11, 1)$
$376: P_{13316} = (3, 31, 11, 1)$
$377: P_{13320} = (7, 31, 11, 1)$

$378: P_{13330} = (17, 31, 11, 1)$
$379: P_{13351} = (6, 0, 12, 1)$
$380: P_{13366} = (21, 0, 12, 1)$
$381: P_{13375} = (30, 0, 12, 1)$
$382: P_{13379} = (2, 1, 12, 1)$
$383: P_{13452} = (11, 3, 12, 1)$
$384: P_{13495} = (22, 4, 12, 1)$
$385: P_{13543} = (6, 6, 12, 1)$
$386: P_{13572} = (3, 7, 12, 1)$
$387: P_{13625} = (24, 8, 12, 1)$
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$791 : P_{26905} = (24, 7, 25, 1)$
$792 : P_{26918} = (5, 8, 25, 1)$
$793 : P_{26925} = (12, 8, 25, 1)$
$794 : P_{26938} = (25, 8, 25, 1)$
$795 : P_{27007} = (30, 10, 25, 1)$
$796 : P_{27060} = (19, 12, 25, 1)$
$797 : P_{27084} = (11, 13, 25, 1)$
$798 : P_{27146} = (9, 15, 25, 1)$
$799 : P_{27149} = (12, 15, 25, 1)$
$800 : P_{27155} = (18, 15, 25, 1)$
$801 : P_{27204} = (3, 17, 25, 1)$
$802 : P_{27345} = (16, 21, 25, 1)$
$803 : P_{27413} = (20, 23, 25, 1)$
$804 : P_{27446} = (21, 24, 25, 1)$
$805 : P_{27478} = (21, 25, 25, 1)$
$806 : P_{27504} = (15, 26, 25, 1)$
$807 : P_{27579} = (26, 28, 25, 1)$
$808 : P_{27629} = (12, 30, 25, 1)$
$809 : P_{27700} = (19, 0, 26, 1)$

$810 : P_{27701} = (20, 0, 26, 1)$
$811 : P_{27709} = (28, 0, 26, 1)$
$812 : P_{27717} = (4, 1, 26, 1)$
$813 : P_{27856} = (15, 5, 26, 1)$
$814 : P_{27901} = (28, 6, 26, 1)$
$815 : P_{27907} = (2, 7, 26, 1)$
$816 : P_{27941} = (4, 8, 26, 1)$
$817 : P_{27988} = (19, 9, 26, 1)$
$818 : P_{28008} = (7, 10, 26, 1)$
$819 : P_{28039} = (6, 11, 26, 1)$
$820 : P_{28046} = (13, 11, 26, 1)$
$821 : P_{28060} = (27, 11, 26, 1)$
$822 : P_{28065} = (0, 12, 26, 1)$
$823 : P_{28071} = (6, 12, 26, 1)$
$824 : P_{28082} = (17, 12, 26, 1)$
$825 : P_{28149} = (20, 14, 26, 1)$
$826 : P_{28161} = (0, 15, 26, 1)$
$827 : P_{28218} = (25, 16, 26, 1)$
$828 : P_{28293} = (4, 19, 26, 1)$
$829 : P_{28308} = (19, 19, 26, 1)$
$830 : P_{28320} = (31, 19, 26, 1)$
$831 : P_{28341} = (20, 20, 26, 1)$
$832 : P_{28358} = (5, 21, 26, 1)$
$833 : P_{28420} = (3, 23, 26, 1)$
$834 : P_{28438} = (21, 23, 26, 1)$
$835 : P_{28443} = (26, 23, 26, 1)$
$836 : P_{28461} = (12, 24, 26, 1)$
$837 : P_{28467} = (18, 24, 26, 1)$
$838 : P_{28478} = (29, 24, 26, 1)$
$839 : P_{28481} = (0, 25, 26, 1)$
$840 : P_{28497} = (16, 25, 26, 1)$
$841 : P_{28499} = (18, 25, 26, 1)$
$842 : P_{28515} = (2, 26, 26, 1)$
$843 : P_{28563} = (18, 27, 26, 1)$
$844 : P_{28605} = (28, 28, 26, 1)$
$845 : P_{28615} = (6, 29, 26, 1)$
$846 : P_{28620} = (11, 29, 26, 1)$
$847 : P_{28708} = (3, 0, 27, 1)$
$848 : P_{28743} = (6, 1, 27, 1)$
$849 : P_{28804} = (3, 3, 27, 1)$
$850 : P_{28880} = (15, 5, 27, 1)$
$851 : P_{28902} = (5, 6, 27, 1)$
$852 : P_{28956} = (27, 7, 27, 1)$
$853 : P_{28970} = (9, 8, 27, 1)$
$854 : P_{28971} = (10, 8, 27, 1)$
$855 : P_{28978} = (17, 8, 27, 1)$
$856 : P_{29076} = (19, 11, 27, 1)$
$857 : P_{29116} = (27, 12, 27, 1)$
$858 : P_{29163} = (10, 14, 27, 1)$
$859 : P_{29168} = (15, 14, 27, 1)$
$860 : P_{29170} = (17, 14, 27, 1)$
$861 : P_{29232} = (15, 16, 27, 1)$
$862 : P_{29244} = (27, 16, 27, 1)$
$863 : P_{29247} = (30, 16, 27, 1)$

$864 : P_{29344} = (31, 19, 27, 1)$
$865 : P_{29417} = (8, 22, 27, 1)$
$866 : P_{29448} = (7, 23, 27, 1)$
$867 : P_{29476} = (3, 24, 27, 1)$
$868 : P_{29493} = (20, 24, 27, 1)$
$869 : P_{29494} = (21, 24, 27, 1)$
$870 : P_{29533} = (28, 25, 27, 1)$
$871 : P_{29573} = (4, 27, 27, 1)$
$872 : P_{29612} = (11, 28, 27, 1)$
$873 : P_{29643} = (10, 29, 27, 1)$
$874 : P_{29650} = (17, 29, 27, 1)$
$875 : P_{29661} = (28, 29, 27, 1)$
$876 : P_{29669} = (4, 30, 27, 1)$
$877 : P_{29677} = (12, 30, 27, 1)$
$878 : P_{29725} = (28, 31, 27, 1)$
$879 : P_{29740} = (11, 0, 28, 1)$
$880 : P_{29742} = (13, 0, 28, 1)$
$881 : P_{29756} = (27, 0, 28, 1)$
$882 : P_{29825} = (0, 3, 28, 1)$
$883 : P_{29833} = (8, 3, 28, 1)$
$884 : P_{29847} = (22, 3, 28, 1)$
$885 : P_{29880} = (23, 4, 28, 1)$
$886 : P_{29949} = (28, 6, 28, 1)$
$887 : P_{29980} = (27, 7, 28, 1)$
$888 : P_{30001} = (16, 8, 28, 1)$
$889 : P_{30085} = (4, 11, 28, 1)$
$890 : P_{30092} = (11, 11, 28, 1)$
$891 : P_{30106} = (25, 11, 28, 1)$
$892 : P_{30127} = (14, 12, 28, 1)$
$893 : P_{30158} = (13, 13, 28, 1)$
$894 : P_{30185} = (8, 14, 28, 1)$
$895 : P_{30189} = (12, 14, 28, 1)$
$896 : P_{30200} = (23, 14, 28, 1)$
$897 : P_{30243} = (2, 16, 28, 1)$
$898 : P_{30281} = (8, 17, 28, 1)$
$899 : P_{30282} = (9, 17, 28, 1)$
$900 : P_{30286} = (13, 17, 28, 1)$
$901 : P_{30326} = (21, 18, 28, 1)$
$902 : P_{30375} = (6, 20, 28, 1)$
$903 : P_{30431} = (30, 21, 28, 1)$
$904 : P_{30456} = (23, 22, 28, 1)$
$905 : P_{30467} = (2, 23, 28, 1)$
$906 : P_{30468} = (3, 23, 28, 1)$
$907 : P_{30476} = (11, 23, 28, 1)$
$908 : P_{30526} = (29, 24, 28, 1)$
$909 : P_{30592} = (31, 26, 28, 1)$
$910 : P_{30595} = (2, 27, 28, 1)$
$911 : P_{30620} = (27, 27, 28, 1)$
$912 : P_{30624} = (31, 27, 28, 1)$
$913 : P_{30629} = (4, 28, 28, 1)$
$914 : P_{30634} = (9, 28, 28, 1)$
$915 : P_{30637} = (12, 28, 28, 1)$
$916 : P_{30688} = (31, 29, 28, 1)$
$917 : P_{30861} = (12, 3, 29, 1)$

918 : $P_{30899} = (18, 4, 29, 1)$
919 : $P_{30927} = (14, 5, 29, 1)$
920 : $P_{30994} = (17, 7, 29, 1)$
921 : $P_{31046} = (5, 9, 29, 1)$
922 : $P_{31056} = (15, 9, 29, 1)$
923 : $P_{31072} = (31, 9, 29, 1)$
924 : $P_{31078} = (5, 10, 29, 1)$
925 : $P_{31137} = (0, 12, 29, 1)$
926 : $P_{31172} = (3, 13, 29, 1)$
927 : $P_{31306} = (9, 17, 29, 1)$
928 : $P_{31371} = (10, 19, 29, 1)$
929 : $P_{31450} = (25, 21, 29, 1)$
930 : $P_{31517} = (28, 23, 29, 1)$
931 : $P_{31523} = (2, 24, 29, 1)$
932 : $P_{31598} = (13, 26, 29, 1)$
933 : $P_{31606} = (21, 26, 29, 1)$
934 : $P_{31615} = (30, 26, 29, 1)$
935 : $P_{31636} = (19, 27, 29, 1)$
936 : $P_{31673} = (24, 28, 29, 1)$
937 : $P_{31705} = (24, 29, 29, 1)$
938 : $P_{31718} = (5, 30, 29, 1)$
939 : $P_{31739} = (26, 30, 29, 1)$
940 : $P_{31742} = (29, 30, 29, 1)$
941 : $P_{31833} = (24, 1, 30, 1)$
942 : $P_{31945} = (8, 5, 30, 1)$
943 : $P_{32038} = (5, 8, 30, 1)$
944 : $P_{32157} = (28, 11, 30, 1)$
945 : $P_{32333} = (12, 17, 30, 1)$
946 : $P_{32341} = (20, 17, 30, 1)$
947 : $P_{32343} = (22, 17, 30, 1)$
948 : $P_{32383} = (30, 18, 30, 1)$
949 : $P_{32432} = (15, 20, 30, 1)$
950 : $P_{32480} = (31, 21, 30, 1)$
951 : $P_{32490} = (9, 22, 30, 1)$
952 : $P_{32504} = (23, 22, 30, 1)$
953 : $P_{32559} = (14, 24, 30, 1)$
954 : $P_{32627} = (18, 26, 30, 1)$
955 : $P_{32652} = (11, 27, 30, 1)$

956 : $P_{32659} = (18, 27, 30, 1)$
957 : $P_{32670} = (29, 27, 30, 1)$
958 : $P_{32692} = (19, 28, 30, 1)$
959 : $P_{32766} = (29, 30, 30, 1)$
960 : $P_{32776} = (7, 31, 30, 1)$
961 : $P_{32787} = (18, 31, 30, 1)$
962 : $P_{32790} = (21, 31, 30, 1)$
963 : $P_{32805} = (4, 0, 31, 1)$
964 : $P_{32842} = (9, 1, 31, 1)$
965 : $P_{32933} = (4, 4, 31, 1)$
966 : $P_{32944} = (15, 4, 31, 1)$
967 : $P_{32946} = (17, 4, 31, 1)$
968 : $P_{33012} = (19, 6, 31, 1)$
969 : $P_{33017} = (24, 6, 31, 1)$
970 : $P_{33033} = (8, 7, 31, 1)$
971 : $P_{33039} = (14, 7, 31, 1)$
972 : $P_{33056} = (31, 7, 31, 1)$
973 : $P_{33073} = (16, 8, 31, 1)$
974 : $P_{33106} = (17, 9, 31, 1)$
975 : $P_{33115} = (26, 9, 31, 1)$
976 : $P_{33117} = (28, 9, 31, 1)$
977 : $P_{33143} = (22, 10, 31, 1)$
978 : $P_{33146} = (25, 10, 31, 1)$
979 : $P_{33148} = (27, 10, 31, 1)$
980 : $P_{33193} = (8, 12, 31, 1)$
981 : $P_{33227} = (10, 13, 31, 1)$
982 : $P_{33251} = (2, 14, 31, 1)$
983 : $P_{33264} = (15, 14, 31, 1)$
984 : $P_{33278} = (29, 14, 31, 1)$
985 : $P_{33394} = (17, 18, 31, 1)$
986 : $P_{33449} = (8, 20, 31, 1)$
987 : $P_{33488} = (15, 21, 31, 1)$
988 : $P_{33523} = (18, 22, 31, 1)$
989 : $P_{33644} = (11, 26, 31, 1)$
990 : $P_{33669} = (4, 27, 31, 1)$
991 : $P_{33697} = (0, 28, 31, 1)$
992 : $P_{33807} = (14, 31, 31, 1)$

Line Intersection Graph

$\rfloor$

Neighbor sets in the line intersection graph:
The surface has 993 points:
The points on the surface are:

0 : $P_{1090} = (0, 1, 0, 1)$
1 : $P_{1127} = (5, 2, 0, 1)$
2 : $P_{1162} = (8, 3, 0, 1)$
3 : $P_{1177} = (23, 3, 0, 1)$
4 : $P_{1183} = (29, 3, 0, 1)$
5 : $P_{1203} = (17, 4, 0, 1)$

6 : $P_{1228} = (10, 5, 0, 1)$
7 : $P_{1240} = (22, 5, 0, 1)$
8 : $P_{1242} = (24, 5, 0, 1)$
9 : $P_{1286} = (4, 7, 0, 1)$
10 : $P_{1298} = (16, 7, 0, 1)$
11 : $P_{1300} = (18, 7, 0, 1)$

12 : $P_{1359} = (13, 9, 0, 1)$
13 : $P_{1437} = (27, 11, 0, 1)$
14 : $P_{1448} = (6, 12, 0, 1)$
15 : $P_{1463} = (21, 12, 0, 1)$
16 : $P_{1472} = (30, 12, 0, 1)$
17 : $P_{1500} = (26, 13, 0, 1)$

$18 : P_{1540} = (2, 15, 0, 1)$

$19 : P_{1582} = (12, 16, 0, 1)$

$20 : P_{1609} = (7, 17, 0, 1)$

$21 : P_{1616} = (14, 17, 0, 1)$

$22 : P_{1627} = (25, 17, 0, 1)$

$23 : P_{1650} = (16, 18, 0, 1)$

$24 : P_{1739} = (9, 21, 0, 1)$

$25 : P_{1743} = (13, 21, 0, 1)$

$26 : P_{1746} = (16, 21, 0, 1)$

$27 : P_{1796} = (2, 23, 0, 1)$

$28 : P_{1809} = (15, 23, 0, 1)$

$29 : P_{1821} = (27, 23, 0, 1)$

$30 : P_{1828} = (2, 24, 0, 1)$

$31 : P_{1830} = (4, 24, 0, 1)$

$32 : P_{1857} = (31, 24, 0, 1)$

$33 : P_{1909} = (19, 26, 0, 1)$

$34 : P_{1910} = (20, 26, 0, 1)$

$35 : P_{1918} = (28, 26, 0, 1)$

$36 : P_{1925} = (3, 27, 0, 1)$

$37 : P_{1965} = (11, 28, 0, 1)$

$38 : P_{1967} = (13, 28, 0, 1)$

$39 : P_{1981} = (27, 28, 0, 1)$

$40 : P_{2054} = (4, 31, 0, 1)$

$41 : P_{2082} = (0, 0, 1, 1)$

$42 : P_{2114} = (0, 1, 1, 1)$

$43 : P_{2188} = (11, 3, 1, 1)$

$44 : P_{2200} = (23, 3, 1, 1)$

$45 : P_{2208} = (31, 3, 1, 1)$

$46 : P_{2256} = (15, 5, 1, 1)$

$47 : P_{2259} = (18, 5, 1, 1)$

$48 : P_{2265} = (24, 5, 1, 1)$

$49 : P_{2294} = (21, 6, 1, 1)$

$50 : P_{2355} = (18, 8, 1, 1)$

$51 : P_{2376} = (7, 9, 1, 1)$

$52 : P_{2410} = (9, 10, 1, 1)$

$53 : P_{2454} = (21, 11, 1, 1)$

$54 : P_{2476} = (11, 12, 1, 1)$

$55 : P_{2483} = (18, 12, 1, 1)$

$56 : P_{2486} = (21, 12, 1, 1)$

$57 : P_{2540} = (11, 14, 1, 1)$

$58 : P_{2589} = (28, 15, 1, 1)$

$59 : P_{2632} = (7, 17, 1, 1)$

$60 : P_{2634} = (9, 17, 1, 1)$

$61 : P_{2656} = (31, 17, 1, 1)$

$62 : P_{2681} = (24, 18, 1, 1)$

$63 : P_{2720} = (31, 19, 1, 1)$

$64 : P_{2749} = (28, 20, 1, 1)$

$65 : P_{2809} = (24, 22, 1, 1)$

$66 : P_{2888} = (7, 25, 1, 1)$

$67 : P_{2922} = (9, 26, 1, 1)$

$68 : P_{2928} = (15, 26, 1, 1)$

$69 : P_{2941} = (28, 26, 1, 1)$

$70 : P_{3032} = (23, 29, 1, 1)$

$71 : P_{3056} = (15, 30, 1, 1)$

$72 : P_{3096} = (23, 31, 1, 1)$

$73 : P_{3110} = (5, 0, 2, 1)$

$74 : P_{3157} = (20, 1, 2, 1)$

$75 : P_{3185} = (16, 2, 2, 1)$

$76 : P_{3270} = (5, 5, 2, 1)$

$77 : P_{3320} = (23, 6, 2, 1)$

$78 : P_{3334} = (5, 7, 2, 1)$

$79 : P_{3357} = (28, 7, 2, 1)$

$80 : P_{3358} = (29, 7, 2, 1)$

$81 : P_{3379} = (18, 8, 2, 1)$

$82 : P_{3436} = (11, 10, 2, 1)$

$83 : P_{3437} = (12, 10, 2, 1)$

$84 : P_{3439} = (14, 10, 2, 1)$

$85 : P_{3523} = (2, 13, 2, 1)$

$86 : P_{3540} = (19, 13, 2, 1)$

$87 : P_{3552} = (31, 13, 2, 1)$

$88 : P_{3593} = (8, 15, 2, 1)$

$89 : P_{3680} = (31, 17, 2, 1)$

$90 : P_{3704} = (23, 18, 2, 1)$

$91 : P_{3729} = (16, 19, 2, 1)$

$92 : P_{3739} = (26, 19, 2, 1)$

$93 : P_{3762} = (17, 20, 2, 1)$

$94 : P_{3779} = (2, 21, 2, 1)$

$95 : P_{3821} = (12, 22, 2, 1)$

$96 : P_{3823} = (14, 22, 2, 1)$

$97 : P_{3832} = (23, 22, 2, 1)$

$98 : P_{3856} = (15, 23, 2, 1)$

$99 : P_{3894} = (21, 24, 2, 1)$

$100 : P_{3915} = (10, 25, 2, 1)$

$101 : P_{3939} = (2, 26, 2, 1)$

$102 : P_{4077} = (12, 30, 2, 1)$

$103 : P_{4079} = (14, 30, 2, 1)$

$104 : P_{4096} = (31, 30, 2, 1)$

$105 : P_{4137} = (8, 0, 3, 1)$

$106 : P_{4152} = (23, 0, 3, 1)$

$107 : P_{4158} = (29, 0, 3, 1)$

$108 : P_{4177} = (16, 1, 3, 1)$

$109 : P_{4202} = (9, 2, 3, 1)$

$110 : P_{4229} = (4, 3, 3, 1)$

$111 : P_{4321} = (0, 6, 3, 1)$

$112 : P_{4330} = (9, 6, 3, 1)$

$113 : P_{4334} = (13, 6, 3, 1)$

$114 : P_{4362} = (9, 7, 3, 1)$

$115 : P_{4375} = (22, 7, 3, 1)$

$116 : P_{4379} = (26, 7, 3, 1)$

$117 : P_{4393} = (8, 8, 3, 1)$

$118 : P_{4401} = (16, 8, 3, 1)$

$119 : P_{4403} = (18, 8, 3, 1)$

$120 : P_{4465} = (16, 10, 3, 1)$

$121 : P_{4489} = (8, 11, 3, 1)$

$122 : P_{4551} = (6, 13, 3, 1)$

$123 : P_{4598} = (21, 14, 3, 1)$

$124 : P_{4611} = (2, 15, 3, 1)$

$125 : P_{4629} = (20, 15, 3, 1)$

$126 : P_{4636} = (27, 15, 3, 1)$

$127 : P_{4704} = (31, 17, 3, 1)$

$128 : P_{4792} = (23, 20, 3, 1)$

$129 : P_{4805} = (4, 21, 3, 1)$

$130 : P_{4848} = (15, 22, 3, 1)$

$131 : P_{4853} = (20, 22, 3, 1)$

$132 : P_{4888} = (23, 23, 3, 1)$

$133 : P_{4900} = (3, 24, 3, 1)$

$134 : P_{4902} = (5, 24, 3, 1)$

$135 : P_{4925} = (28, 24, 3, 1)$

$136 : P_{4961} = (0, 26, 3, 1)$

$137 : P_{4973} = (12, 26, 3, 1)$

$138 : P_{4981} = (20, 26, 3, 1)$

$139 : P_{5042} = (17, 28, 3, 1)$

$140 : P_{5086} = (29, 29, 3, 1)$

$141 : P_{5118} = (29, 30, 3, 1)$

$142 : P_{5121} = (0, 31, 3, 1)$

$143 : P_{5170} = (17, 0, 4, 1)$

$144 : P_{5214} = (29, 1, 4, 1)$

$145 : P_{5253} = (4, 3, 4, 1)$

$146 : P_{5294} = (13, 4, 4, 1)$

$147 : P_{5359} = (14, 6, 4, 1)$

$148 : P_{5405} = (28, 7, 4, 1)$

$149 : P_{5412} = (3, 8, 4, 1)$

$150 : P_{5422} = (13, 8, 4, 1)$

$151 : P_{5465} = (24, 9, 4, 1)$

$152 : P_{5482} = (9, 10, 4, 1)$

$153 : P_{5555} = (18, 12, 4, 1)$

$154 : P_{5616} = (15, 14, 4, 1)$

$155 : P_{5627} = (26, 14, 4, 1)$

$156 : P_{5631} = (30, 14, 4, 1)$

$157 : P_{5714} = (17, 17, 4, 1)$

$158 : P_{5779} = (18, 19, 4, 1)$

$159 : P_{5787} = (26, 19, 4, 1)$

$160 : P_{5791} = (30, 19, 4, 1)$

$161 : P_{5817} = (24, 20, 4, 1)$

$162 : P_{5842} = (17, 21, 4, 1)$

$163 : P_{5847} = (22, 21, 4, 1)$

$164 : P_{5848} = (23, 21, 4, 1)$

$165 : P_{5952} = (31, 24, 4, 1)$

$166 : P_{5977} = (24, 25, 4, 1)$

$167 : P_{5979} = (26, 25, 4, 1)$

$168 : P_{5983} = (30, 25, 4, 1)$

$169 : P_{6021} = (4, 27, 4, 1)$

$170 : P_{6025} = (8, 27, 4, 1)$

$171 : P_{6035} = (18, 27, 4, 1)$

$172 : P_{6053} = (4, 28, 4, 1)$

$173 : P_{6093} = (12, 29, 4, 1)$

$174 : P_{6155} = (10, 31, 4, 1)$

$175 : P_{6187} = (10, 0, 5, 1)$

$176 : P_{6199} = (22, 0, 5, 1)$

$177 : P_{6201} = (24, 0, 5, 1)$

$178 : P_{6222} = (13, 1, 5, 1)$

$179 : P_{6273} = (0, 3, 5, 1)$

$180 : P_{6299} = (26, 3, 5, 1)$
$181 : P_{6302} = (29, 3, 5, 1)$
$182 : P_{6316} = (11, 4, 5, 1)$
$183 : P_{6353} = (16, 5, 5, 1)$
$184 : P_{6406} = (5, 7, 5, 1)$
$185 : P_{6418} = (17, 7, 5, 1)$
$186 : P_{6424} = (23, 7, 5, 1)$
$187 : P_{6506} = (9, 10, 5, 1)$
$188 : P_{6507} = (10, 10, 5, 1)$
$189 : P_{6510} = (13, 10, 5, 1)$
$190 : P_{6579} = (18, 12, 5, 1)$
$191 : P_{6638} = (13, 14, 5, 1)$
$192 : P_{6667} = (10, 15, 5, 1)$
$193 : P_{6753} = (0, 18, 5, 1)$
$194 : P_{6807} = (22, 19, 5, 1)$
$195 : P_{6817} = (0, 20, 5, 1)$
$196 : P_{6828} = (11, 20, 5, 1)$
$197 : P_{6844} = (27, 20, 5, 1)$
$198 : P_{6852} = (3, 21, 5, 1)$
$199 : P_{6860} = (11, 21, 5, 1)$
$200 : P_{6874} = (25, 21, 5, 1)$
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