image 27 res object points

|  |  |  |
| --- | --- | --- |
| 475.55 | -538.18 | 1090.5 |
| 517.62 | -194.43 | 1090.65 |
| -466.39 | -542.31 | 1091.55 |
| 321.09 | -667.45 | 1083.49 |

image 27 res image points

|  |  |
| --- | --- |
| 18.9433 | -81.8152 |
| 90.3787 | -91.0924 |
| 18.1493 | 109.5753 |
| -7.657 | -49.1117 |

image 27 res Approximated Parameters

|  |
| --- |
| 74.2026 |
| -632.4509 |
| 1840.789 |
| 0.0 |
| 0.0 |
| 90.0124 |

image 27 res Estimated Parameters

|  |
| --- |
| 100.2194 |
| -628.2854 |
| 1841.6937 |
| -0.1994 |
| 1.5142 |
| 90.1911 |

image 27 res residuals

|  |
| --- |
| -0.0192 |
| -0.0399 |
| -0.0126 |
| -0.0024 |
| -0.0147 |
| 0.0046 |
| 0.0468 |
| 0.0385 |

image 27 res x\_residuals

|  |
| --- |
| -0.0192 |
| -0.0126 |
| -0.0147 |
| 0.0468 |

image 27 res y\_residuals

|  |
| --- |
| -0.0399 |
| -0.0024 |
| 0.0046 |
| 0.0385 |

image 27 res x redundancy

|  |
| --- |
| 0.6053 |
| 0.1724 |
| 0.062 |
| 0.403 |
| 1.2427 |

image 27 res y redundancy

|  |
| --- |
| 0.2663 |
| 0.1167 |
| 0.0051 |
| 0.3692 |
| 0.7573 |

image 27 res other quantities

|  |
| --- |
| 0.0271 |
| 0.0278 |
| 2.0 |
| 3.6607 |

image 27 res STD

|  |
| --- |
| 0.4659 |
| 0.508 |
| 0.1806 |
| 0.0385 |
| 0.027 |
| 0.0063 |

image 27 res Correlation Matrix

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1.0 | -0.8363 | -0.8528 | 0.8514 | 0.9961 | 0.6499 |
| -0.8363 | 1.0 | 0.9149 | -0.9965 | -0.8478 | -0.5561 |
| -0.8528 | 0.9149 | 1.0 | -0.9293 | -0.8535 | -0.5428 |
| 0.8514 | -0.9965 | -0.9293 | 1.0 | 0.8627 | 0.5472 |
| 0.9961 | -0.8478 | -0.8535 | 0.8627 | 1.0 | 0.6315 |
| 0.6499 | -0.5561 | -0.5428 | 0.5472 | 0.6315 | 1.0 |

image 28 res object points

|  |  |  |
| --- | --- | --- |
| 475.55 | -538.18 | 1090.5 |
| 517.62 | -194.43 | 1090.65 |
| -466.39 | -542.31 | 1091.55 |
| 321.09 | -667.45 | 1083.49 |

image 28 res image points

|  |  |
| --- | --- |
| -72.5472 | -79.7643 |
| -1.3569 | -86.9497 |
| -77.8264 | 113.4049 |
| -98.855 | -48.0677 |

image 28 res Approximated Parameters

|  |
| --- |
| 95.6123 |
| -177.3366 |
| 1836.7543 |
| 0.0 |
| 0.0 |
| 88.6534 |

image 28 res Estimated Parameters

|  |
| --- |
| 105.8287 |
| -170.9495 |
| 1833.906 |
| -0.4304 |
| 0.5455 |
| 88.4534 |

image 28 res residuals

|  |
| --- |
| -0.0096 |
| -0.0408 |
| -0.0089 |
| 0.0146 |
| -0.0016 |
| 0.0027 |
| 0.0204 |
| 0.0238 |

image 28 res x\_residuals

|  |
| --- |
| -0.0096 |
| -0.0089 |
| -0.0016 |
| 0.0204 |

image 28 res y\_residuals

|  |
| --- |
| -0.0408 |
| 0.0146 |
| 0.0027 |
| 0.0238 |

image 28 res x redundancy

|  |
| --- |
| 0.5337 |
| 0.0625 |
| 0.0021 |
| 0.3747 |
| 0.973 |

image 28 res y redundancy

|  |
| --- |
| 0.5832 |
| 0.0897 |
| 0.0068 |
| 0.3473 |
| 1.027 |

image 28 res other quantities

|  |
| --- |
| 0.0121 |
| 0.0247 |
| 2.0 |
| 2.5974 |

image 28 res STD

|  |
| --- |
| 0.3481 |
| 0.3424 |
| 0.1812 |
| 0.025 |
| 0.0173 |
| 0.0086 |

image 28 res Correlation Matrix

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1.0 | 0.4267 | -0.6297 | -0.4554 | 0.9891 | -0.8523 |
| 0.4267 | 1.0 | -0.8674 | -0.9906 | 0.3687 | -0.4978 |
| -0.6297 | -0.8674 | 1.0 | 0.9087 | -0.5763 | 0.6151 |
| -0.4554 | -0.9906 | 0.9087 | 1.0 | -0.3979 | 0.5051 |
| 0.9891 | 0.3687 | -0.5763 | -0.3979 | 1.0 | -0.8063 |
| -0.8523 | -0.4978 | 0.6151 | 0.5051 | -0.8063 | 1.0 |

test res object points

|  |  |  |
| --- | --- | --- |
| 7350.27 | 4382.54 | 276.42 |
| 6717.22 | 4626.41 | 280.05 |
| 6905.26 | 3279.84 | 266.47 |
| 6172.84 | 3269.45 | 248.1 |

test res image points

|  |  |
| --- | --- |
| 106.399 | 90.426 |
| 18.989 | 93.365 |
| 98.681 | -62.769 |
| 9.278 | -92.926 |

test res Approximated Parameters

|  |
| --- |
| 6338.6356 |
| 3984.639 |
| 1453.0597 |
| 0.0 |
| 0.0 |
| -18.8539 |

test res Estimated Parameters

|  |
| --- |
| 6349.4884 |
| 3965.252 |
| 1458.0953 |
| 0.9885 |
| 0.4071 |
| -18.9049 |

test res residuals

|  |
| --- |
| -0.0103 |
| 0.0242 |
| 0.0238 |
| -0.0141 |
| -0.0117 |
| -0.0003 |
| -0.0017 |
| -0.01 |

test res x\_residuals

|  |
| --- |
| -0.0103 |
| 0.0238 |
| -0.0117 |
| -0.0017 |

test res y\_residuals

|  |
| --- |
| 0.0242 |
| -0.0141 |
| -0.0003 |
| -0.01 |

test res x redundancy

|  |
| --- |
| 0.2206 |
| 0.3458 |
| 0.0841 |
| 0.1277 |
| 0.7782 |

test res y redundancy

|  |
| --- |
| 0.3468 |
| 0.2115 |
| 0.4776 |
| 0.1859 |
| 1.2218 |

test res other quantities

|  |
| --- |
| 0.0142 |
| 0.0149 |
| 2.0 |
| 1.942 |

test res STD

|  |
| --- |
| 0.3234 |
| 0.5364 |
| 0.1544 |
| 0.0188 |
| 0.0139 |
| 0.0068 |

test res Correlation Matrix

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1.0 | -0.0022 | 0.694 | 0.0706 | 0.9692 | -0.1826 |
| -0.0022 | 1.0 | -0.184 | -0.9894 | -0.1312 | -0.7706 |
| 0.694 | -0.184 | 1.0 | 0.2465 | 0.7944 | 0.0051 |
| 0.0706 | -0.9894 | 0.2465 | 1.0 | 0.201 | 0.7197 |
| 0.9692 | -0.1312 | 0.7944 | 0.201 | 1.0 | -0.0747 |
| -0.1826 | -0.7706 | 0.0051 | 0.7197 | -0.0747 | 1.0 |

space intersection image 27 measurements

|  |  |
| --- | --- |
| 60.4244 | 84.9558 |
| 62.8698 | 84.9618 |
| 68.4389 | 84.9619 |
| 71.3365 | 84.9441 |
| 60.4722 | 83.1585 |
| 63.3281 | 83.1526 |
| 68.3974 | 83.1587 |
| 71.2474 | 83.1588 |
| 60.4664 | 80.897 |
| 63.3224 | 80.8971 |
| 68.4095 | 80.8913 |
| 71.2655 | 80.8973 |
| 60.4726 | 78.4035 |
| 63.3345 | 78.4035 |
| 68.4157 | 78.3977 |
| 71.2657 | 78.3859 |

space intersection image 28 measurements

|  |  |
| --- | --- |
| -34.5046 | 89.5267 |
| -32.0175 | 89.5818 |
| -26.3711 | 89.7817 |
| -23.4497 | 89.9263 |
| -34.4081 | 87.6583 |
| -31.5284 | 87.7553 |
| -26.3876 | 87.9132 |
| -23.5138 | 88.0102 |
| -34.3589 | 85.3495 |
| -31.4732 | 85.4405 |
| -26.3146 | 85.6104 |
| -23.4349 | 85.7074 |
| -34.2917 | 82.7849 |
| -31.4119 | 82.8759 |
| -26.2652 | 83.0338 |
| -23.3676 | 83.1249 |

lab intersection left eops

|  |
| --- |
| 74.2026 |
| -632.4509 |
| 1840.789 |
| 0.0 |
| 0.0 |
| 90.0124 |

lab intersection right eops

|  |
| --- |
| 95.6123 |
| -177.3366 |
| 1836.7543 |
| 0.0 |
| 0.0 |
| 88.6534 |

space intersection object coords

|  |  |  |
| --- | --- | --- |
| -344.4201 | -335.66 | 1087.4644 |
| -344.5642 | -323.5509 | 1087.2258 |
| -344.9493 | -296.0076 | 1086.8464 |
| -345.1212 | -281.7281 | 1086.7988 |
| -335.4701 | -335.4078 | 1087.404 |
| -335.5657 | -321.3462 | 1087.3388 |
| -335.8766 | -296.2752 | 1086.9773 |
| -335.9888 | -282.231 | 1086.9092 |
| -324.2822 | -335.4315 | 1087.3868 |
| -324.4047 | -321.3497 | 1087.2697 |
| -324.7049 | -296.1894 | 1086.9166 |
| -324.8315 | -282.1145 | 1086.8461 |
| -311.9023 | -335.3957 | 1087.3604 |
| -311.9725 | -321.3239 | 1087.3393 |
| -312.2144 | -296.2168 | 1087.0313 |
| -312.379 | -282.085 | 1086.7745 |

space intersection stats

|  |
| --- |
| 1087.1181 |
| 0.2429 |

space intersection object coords z residuals

|  |
| --- |
| 0.3463 |
| 0.1077 |
| -0.2717 |
| -0.3192 |
| 0.2859 |
| 0.2207 |
| -0.1408 |
| -0.2089 |
| 0.2687 |
| 0.1516 |
| -0.2015 |
| -0.272 |
| 0.2423 |
| 0.2213 |
| -0.0868 |
| -0.3436 |

test intersection left eops

|  |
| --- |
| 6349.488 |
| 3965.252 |
| 1458.095 |
| 0.9885 |
| 0.4071 |
| -18.9049 |

test intersection right eops

|  |
| --- |
| 7021.897 |
| 3775.68 |
| 1466.702 |
| 1.8734 |
| 1.6751 |
| -15.7481 |

test intersection 72 image points

|  |
| --- |
| 70.964 |
| 4.907 |
| -15.581 |
| -0.387 |

test intersection 72 approximate parameters

|  |
| --- |
| 6869.1679 |
| 3844.536 |
| 283.2023 |

test intersection 72 Estimated Parameters

|  |
| --- |
| 6869.1679 |
| 3844.5358 |
| 283.2023 |

test intersection 72 residuals

|  |
| --- |
| -0.0001 |
| 0.0012 |
| 0.0 |
| -0.0012 |

test intersection 72 x\_residuals

|  |
| --- |
| -0.0001 |
| 0.0 |

test intersection 72 y\_residuals

|  |
| --- |
| 0.0012 |
| -0.0012 |

test intersection 72 x redundancy

|  |
| --- |
| 0.0015 |
| 0.0 |
| 0.0015 |

test intersection 72 y redundancy

|  |
| --- |
| 0.4899 |
| 0.5086 |
| 0.9985 |

test intersection 72 other quantities

|  |
| --- |
| 0.0 |
| 0.0012 |
| 1.0 |
| 0.0781 |

test intersection 72 STD

|  |
| --- |
| 0.0939 |
| 0.0825 |
| 0.2768 |

test intersection 72 Correlation Matrix

|  |  |  |
| --- | --- | --- |
| 1.0 | -0.0403 | -0.4834 |
| -0.0403 | 1.0 | 0.0868 |
| -0.4834 | 0.0868 | 1.0 |

test intersection 127 image points

|  |
| --- |
| -0.931 |
| -7.284 |
| -85.407 |
| -8.351 |

test intersection 127 approximate parameters

|  |
| --- |
| 6316.1362 |
| 3934.6756 |
| 283.2271 |

test intersection 127 Estimated Parameters

|  |
| --- |
| 6316.1361 |
| 3934.675 |
| 283.2271 |

test intersection 127 residuals

|  |
| --- |
| -0.0001 |
| 0.0027 |
| -0.0 |
| -0.0027 |

test intersection 127 x\_residuals

|  |
| --- |
| -0.0001 |
| -0.0 |

test intersection 127 y\_residuals

|  |
| --- |
| 0.0027 |
| -0.0027 |

test intersection 127 x redundancy

|  |
| --- |
| 0.0014 |
| 0.0 |
| 0.0014 |

test intersection 127 y redundancy

|  |
| --- |
| 0.4846 |
| 0.5139 |
| 0.9986 |

test intersection 127 other quantities

|  |
| --- |
| 0.0001 |
| 0.0027 |
| 1.0 |
| 0.1804 |

test intersection 127 STD

|  |
| --- |
| 0.1193 |
| 0.0843 |
| 0.2847 |

test intersection 127 Correlation Matrix

|  |  |  |
| --- | --- | --- |
| 1.0 | -0.124 | 0.7126 |
| -0.124 | 1.0 | -0.1636 |
| 0.7126 | -0.1636 | 1.0 |