

FIGARO HORIZONTAL GEOMETRY v02 – 19/02/13

| Component | Length / Gap | Start Distance | Centre Distance | End Distance |
|------------------------------------|--------------|----------------|-----------------|--------------|
| A. Reactor Guide Exit (Position 0) | (0) | (0) | 0 | (0) |
| | 20 | 0 | 10 | 20 |
| B. FIGARO Feed Guide | 2754 | 20 | 1397 | 2774 |
| | 63 | 2774 | 2805.5 | 2837 |
| C. Frame Overlap Mirror (FOM) | 900 | 2837 | 3287 | 3737 |
| | 81 | 3737 | 3777.5 | 3818 |
| D. Chopper Guide 1 | 150 | 3818 | 3893 | 3968 |
| | 116 | 3968 | 4026 | 4084 |
| E. Chopper Guide 2 | 234 | 4084 | 4201 | 4318 |
| | 19 | 4318 | 4327.5 | 4337 |
| F. Chopper Guide 3 | 434 | 4337 | 4554 | 4771 |
| | 87 | 4771 | 4814.5 | 4858 |
| G. Lead Diaphragm (BGS1) | 82 | 4858 | 4899 | 4940 |
| | 49 | 4940 | 4964.5 | 4989 |
| H. Deflector Mirror (M1) | 1450 | 4989 | 5714 | 6439 |
| | 43 | 6439 | 6460.5 | 6482 |
| I. Deflector Mirror (M2) | 803 | 6482 | 6883.5 | 7285 |
| | 63 | 7285 | 7317.5 | 7350 |
| J. Precision Slit (S2) | 4 | 7350 | 7352 | 7354 |
| | 38 | 7354 | 7372 | 7390 |
| K. Collimation Guide (COH) | 1876 | 7390 | 8328 | 9266 |
| | 62 | 9266 | 9297 | 9328 |
| L. Lead Diaphragm (BGS3) | 104 | 9328 | 9380 | 9432 |
| | 79 | 9432 | 9471.5 | 9511 |
| M. Precision Slit (S3) | 4 | 9515 | 9517 | 9519 |
| | 366 | 9519 | 9702 | 9885 |
| N. Sample Centre | (0) | (9885) | 9885 | (9885) |
| | 2831 | 9885 | 11300.5 | 12716 |
| O. Detector Centre | (0) | (12716) | 12716 | (12716) |

| M1 Motor Geometry | |
|-------------------|--------|
| Guide Portion | Length |
| a | 95 |
| b | 1250 |
| c | 105 |

| M2 Motor Geometry | |
|-------------------|--------|
| Guide Portion | Length |
| d | 56 |
| e | 585 |
| f | 162 |

| COH Motor Geometry | |
|--------------------|--------|
| Guide Portion | Length |
| g | 200 |
| h | 1450 |
| i | 226 |

(S2-S3 distance = 2165 mm / s2-sample distance = 2533 mm / s3-sample distance = 368 mm)

