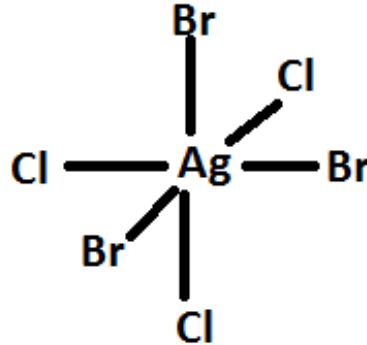


Determinando a distribuição dos ânions ao redor da Ag

Analisando o espectro na borda k da Ag

1- Considerando um arranjo facial



Arranjo dos átomos de Br e Cl na primeira esfera considerando uma isomeria facial

```
*-----*
* The following crystallographic data were used:
*
* title          ...
* space = F m -3 m
* a = 5.66040    b = 5.66040    c = 5.66040
* alpha = 90.0   beta = 90.0    gamma = 90.0
* core = Ag      edge = k
* atoms
* ! elem        x          y          z          tag          occ
* Ag            0.00000    0.00000    0.00000    Ag            1.00000
* Br            0.50000    0.50000    0.50000    Br            1.00000
*-----*
```

```
POTENTIALS
* ipot  z  element
  0    47  Ag
  1    47  Ag
  2    35  Br
  3    17  Cl

ATOMS
* x          y          z          ipot tag          distance
  0.00000    0.00000    0.00000    0 Ag            0.00000
  2.83020    0.00000    0.00000    3 Cl_1          2.83020
 -2.83020    0.00000    0.00000    2 Br_1          2.83020
  0.00000    2.83020    0.00000    3 Cl_1          2.83020
  0.00000   -2.83020    0.00000    2 Br_1          2.83020
  0.00000    0.00000    2.83020    3 Cl_1          2.83020
  0.00000    0.00000   -2.83020    2 Br_1          2.83020
  2.83020    2.83020    0.00000    1 Ag_1          4.00251
 -2.83020    2.83020    0.00000    1 Ag_1          4.00251
  2.83020   -2.83020    0.00000    1 Ag_1          4.00251
 -2.83020   -2.83020    0.00000    1 Ag_1          4.00251
  2.83020    0.00000    2.83020    1 Ag_1          4.00251
 -2.83020    0.00000    2.83020    1 Ag_1          4.00251
  0.00000    2.83020    2.83020    1 Ag_1          4.00251
  0.00000   -2.83020    2.83020    1 Ag_1          4.00251
  2.83020    0.00000   -2.83020    1 Ag_1          4.00251
 -2.83020    0.00000   -2.83020    1 Ag_1          4.00251
  0.00000    2.83020   -2.83020    1 Ag_1          4.00251
  0.00000   -2.83020   -2.83020    1 Ag_1          4.00251
  2.83020    2.83020    2.83020    2 Br_2          4.90205
 -2.83020    2.83020    2.83020    2 Br_2          4.90205
  2.83020   -2.83020    2.83020    2 Br_2          4.90205
 -2.83020   -2.83020    2.83020    2 Br_2          4.90205
  2.83020    2.83020   -2.83020    2 Br_2          4.90205
 -2.83020    2.83020   -2.83020    2 Br_2          4.90205
  2.83020   -2.83020   -2.83020    2 Br_2          4.90205
 -2.83020   -2.83020   -2.83020    2 Br_2          4.90205
  5.66040    0.00000    0.00000    1 Ag_2          5.66040
 -5.66040    0.00000    0.00000    1 Ag_2          5.66040
  0.00000    5.66040    0.00000    1 Ag_2          5.66040
  0.00000   -5.66040    0.00000    1 Ag_2          5.66040
  0.00000    0.00000    5.66040    1 Ag_2          5.66040
  0.00000    0.00000   -5.66040    1 Ag_2          5.66040
END
```

| | | | | |
|----|----|-------|--------|--------------------------|
| 1 | 3 | 2.830 | 100.00 | [+] Br_1 [+] |
| 2 | 3 | 2.830 | 96.86 | [+] Cl_1 [+] |
| 3 | 12 | 4.003 | 100.00 | [+] Ag_1 [+] |
| 5 | 24 | 4.832 | 10.45 | [+] Ag_1 Br_1 [+] |
| 6 | 24 | 4.832 | 8.19 | [+] Ag_1 Cl_1 [+] |
| 7 | 4 | 4.902 | 14.47 | [+] Br_2 [+] |
| 8 | 4 | 4.902 | 11.30 | [+] Cl_2 [+] |
| 9 | 6 | 5.660 | 16.23 | [+] Ag_2 [+] |
| 10 | 6 | 5.660 | 3.72 | [+] Cl_1 Br_1 [+] |
| 11 | 6 | 5.660 | 33.58 | 1 [+] Ag_2 Br_1 [+] |
| 12 | 6 | 5.660 | 29.48 | 1 [+] Ag_2 Cl_1 [+] |
| 13 | 6 | 5.660 | 6.08 | 1 [+] Cl_1 [+] Br_1 [+] |
| 16 | 3 | 5.660 | 34.98 | 2 [+] Br_1 Ag_2 Br_1 [+] |
| 17 | 3 | 5.660 | 26.49 | 2 [+] Cl_1 Ag_2 Cl_1 [+] |
| 23 | 24 | 5.867 | 2.96 | [+] Cl_2 Ag_1 [+] |

label:

N: 3 S02: amp*(1-x)

delE0: enot

delR: delr1

sigma^2: ss1

Ei:

3rd:

4th:

label:

N: 3 S02: amp*x

delE0: enot

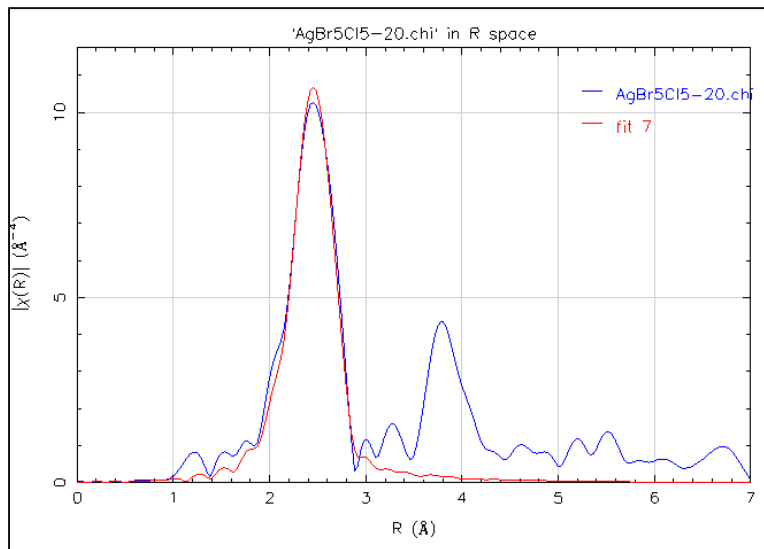
delR: delr2

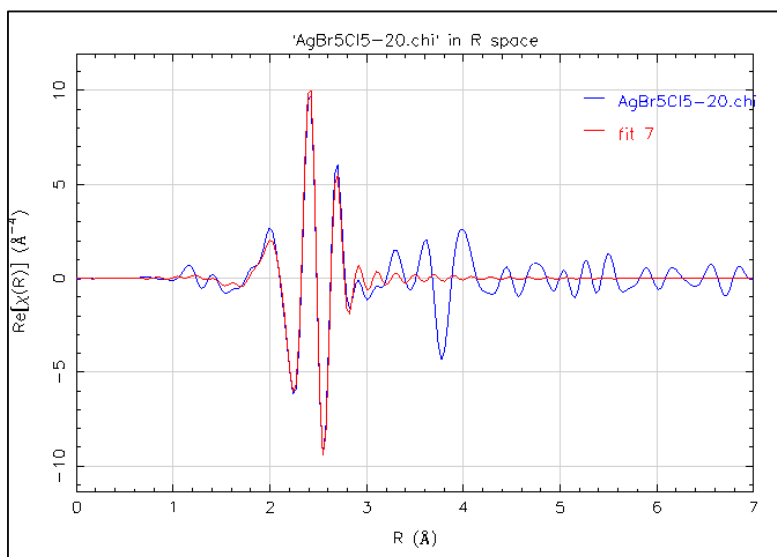
sigma^2: ss2

Ei:

3rd:

4th:





```

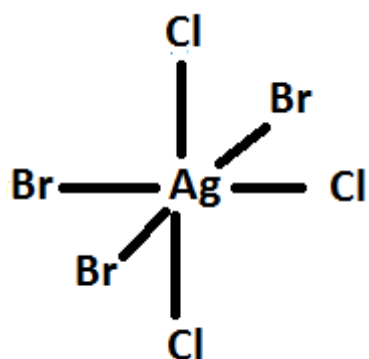
Independent points      =      16.075195312
Number of variables    =      6.000000000
Chi-square             =     1631.398182579
Reduced Chi-square     =     161.922238922
R-factor →           =      0.000127532
Measurement uncertainty (k) = 0.000060473
Measurement uncertainty (R) = 0.033406205
Number of data sets    =      1.000000000

Guess parameters +/- uncertainties (initial guess):
enot      = 0.7288650 +/- 3.0480170 (0.0000)
delr1     = 0.0361500 +/- 0.0112550 (0.0000)
ss1       = 0.0019880 +/- 0.0006060 (0.0030)
delr2     = -0.1228670 +/- 0.0178020 (0.0000)
ss2       = 0.0011920 +/- 0.0004710 (0.0030)
x →           = 0.5057740 +/- 0.1306190 (0.5000)

Set parameters:
amp       = 0.9

```

2- Considerando um arranjo meridional

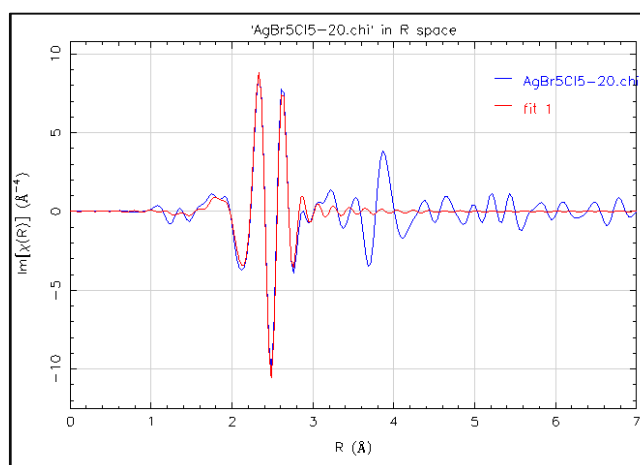
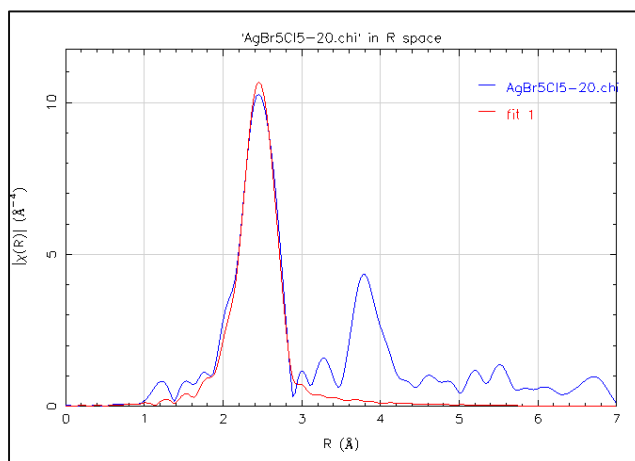


Arranjo dos átomos de Br e Cl na primeira esfera considerando uma isomeria meridional

| POTENTIALS | | | | * this list contains 33 atoms | | | |
|------------|----|---------|------|-------------------------------|----------|--|--|
| * ipot | z | element | ipot | tag | distance | | |
| 0 | 47 | Ag | 0 | Ag | 0.00000 | | |
| 1 | 47 | Ag | 1 | Ag_1 | 4.00251 | | |
| 2 | 35 | Br | 2 | Br_1 | 2.83020 | | |
| 3 | 17 | Cl | 3 | Cl_1 | 2.83020 | | |

| * x | y | z | ipot | tag | distance | | |
|----------|----------|----------|------|------|----------|--|--|
| 0.00000 | 0.00000 | 0.00000 | 0 | Ag | 0.00000 | | |
| 2.83020 | 0.00000 | 0.00000 | 2 | Br_1 | 2.83020 | | |
| -2.83020 | 0.00000 | 0.00000 | 2 | Br_1 | 2.83020 | | |
| 0.00000 | 2.83020 | 0.00000 | 2 | Br_1 | 2.83020 | | |
| 0.00000 | -2.83020 | 0.00000 | 2 | Br_1 | 2.83020 | | |
| 0.00000 | 0.00000 | 2.83020 | 3 | Cl_1 | 2.83020 | | |
| 0.00000 | 0.00000 | -2.83020 | 3 | Cl_1 | 2.83020 | | |
| 2.83020 | 2.83020 | 0.00000 | 1 | Ag_1 | 4.00251 | | |
| -2.83020 | 2.83020 | 0.00000 | 1 | Ag_1 | 4.00251 | | |
| 2.83020 | -2.83020 | 0.00000 | 1 | Ag_1 | 4.00251 | | |
| -2.83020 | -2.83020 | 0.00000 | 1 | Ag_1 | 4.00251 | | |
| 2.83020 | 0.00000 | 2.83020 | 1 | Ag_1 | 4.00251 | | |
| -2.83020 | 0.00000 | 2.83020 | 1 | Ag_1 | 4.00251 | | |
| 0.00000 | 2.83020 | 2.83020 | 1 | Ag_1 | 4.00251 | | |
| 0.00000 | -2.83020 | 2.83020 | 1 | Ag_1 | 4.00251 | | |
| 2.83020 | 0.00000 | -2.83020 | 1 | Ag_1 | 4.00251 | | |
| -2.83020 | 0.00000 | -2.83020 | 1 | Ag_1 | 4.00251 | | |
| 0.00000 | 2.83020 | -2.83020 | 1 | Ag_1 | 4.00251 | | |
| 0.00000 | -2.83020 | -2.83020 | 1 | Ag_1 | 4.00251 | | |

| | | | | |
|----|----|-------|--------|--------------------------|
| 1 | 3 | 2.830 | 100.00 | [+] Br_1 [+] |
| 2 | 3 | 2.830 | 96.37 | [+] Cl_1 [+] |
| 3 | 12 | 4.003 | 100.00 | [+] Ag_1 [+] |
| 5 | 24 | 4.832 | 10.08 | [+] Ag_1 Br_1 [+] |
| 6 | 24 | 4.832 | 7.86 | [+] Ag_1 Cl_1 [+] |
| 7 | 4 | 4.902 | 14.04 | [+] Br_2 [+] |
| 8 | 4 | 4.902 | 10.89 | [+] Cl_2 [+] |
| 9 | 6 | 5.660 | 16.25 | [+] Ag_2 [+] |
| 13 | 6 | 5.660 | 33.45 | 1 [+] Ag_2 Br_1 [+] |
| 14 | 6 | 5.660 | 29.20 | 1 [+] Ag_2 Cl_1 [+] |
| 15 | 2 | 5.660 | 3.09 | 1 [+] Br_1 [+] Br_1 [+] |
| 20 | 3 | 5.660 | 34.76 | 2 [+] Br_1 Ag_2 Br_1 [+] |
| 21 | 3 | 5.660 | 26.03 | 2 [+] Cl_1 Ag_2 Cl_1 [+] |
| 29 | 24 | 5.867 | 2.93 | [+] Cl_2 Ag_1 [+] |



```

Independent points      =      15.802734375
Number of variables    =      6.000000000
Chi-square             =     1492.488861382
Reduced Chi-square     =     152.252300663
R-factor               =      0.000116727
Measurement uncertainty (k) = 0.000060473
Measurement uncertainty (R) = 0.033406205
Number of data sets   =      1.000000000

Guess parameters +/- uncertainties (initial guess):
enot      = 0.4845650 +/- 3.0282620 (0.0000)
delr1     = 0.0353500 +/- 0.0111930 (0.0000)
ss1       = 0.0018840 +/- 0.0006220 (0.0030)
delr2     = -0.1242920 +/- 0.0177610 (0.0000)
ss2       = 0.0012070 +/- 0.0004650 (0.0030)
x         = 0.5132420 +/- 0.1279800 (0.5000)

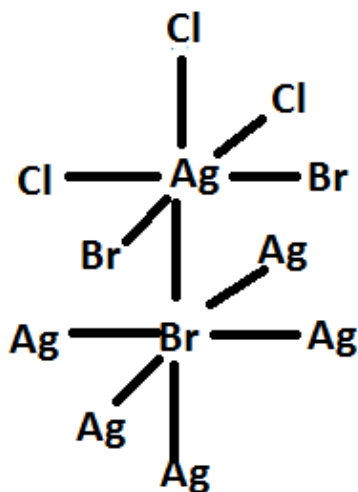
Set parameters:
amp       = 0.9
  
```

Resumo dos resultados do ajuste da primeira vizinhança para o arranjo facial e meridional

| Arranjo dos ânions | Enot | r (Å) | | Sigma ² (10 ⁻³) | | Delta r | | Fração mássica (x) |
|--------------------|------|-------|------|--|-----------|-------------|--------------|--------------------|
| | | Br | Cl | ss1 | ss2 | Delr1 | Delr2 | |
| Facial | 0.73 | 2.86 | 2,70 | 1.98±0.60 | 1.19±0.47 | 0.036±0.011 | -0.123±0.018 | 0.51±0.13 |
| Meridiano | 0.48 | 2,86 | 2,70 | 1.88±0.62 | 1.21±0.46 | 0.035±0.011 | -0.124±0.018 | 0.51±0.12 |

Tratando os espectros na borda k da Ag e do Br simultaneamente

1- Considerando um arranjo facial



| POTENTIALS | | | |
|------------|------|----|---------|
| * | ipot | Z | element |
| | 0 | 47 | Ag |
| | 1 | 47 | Ag |
| | 2 | 35 | Br |
| | 3 | 17 | Cl |

| ATOMS | | | | * this list contains 57 atoms | |
|-------|----------|----------|----------|-------------------------------|------|
| * | x | y | z | ipot | tag |
| | 0.00000 | 0.00000 | 0.00000 | 0 | Ag |
| | 2.88725 | 0.00000 | 0.00000 | 2 | Br_1 |
| | -2.88725 | 0.00000 | 0.00000 | 3 | Cl_1 |
| | 0.00000 | 2.88725 | 0.00000 | 2 | Br_1 |
| | 0.00000 | -2.88725 | 0.00000 | 3 | Cl_1 |
| | 0.00000 | 0.00000 | 2.88725 | 3 | Cl_1 |
| | 0.00000 | 0.00000 | -2.88725 | 2 | Br_1 |
| | 2.88725 | 2.88725 | 0.00000 | 1 | Ag_1 |
| | -2.88725 | 2.88725 | 0.00000 | 1 | Ag_1 |
| | 2.88725 | -2.88725 | 0.00000 | 1 | Ag_1 |
| | -2.88725 | -2.88725 | 0.00000 | 1 | Ag_1 |
| | 2.88725 | 0.00000 | 2.88725 | 1 | Ag_1 |
| | 2.88725 | 0.00000 | -2.88725 | 1 | Ag_1 |
| | -2.88725 | 0.00000 | 2.88725 | 1 | Ag_1 |
| | -2.88725 | 0.00000 | -2.88725 | 1 | Ag_1 |
| | 0.00000 | 2.88725 | 2.88725 | 1 | Ag_1 |
| | 0.00000 | -2.88725 | 2.88725 | 1 | Ag_1 |
| | 2.88725 | 0.00000 | -2.88725 | 1 | Ag_1 |
| | -2.88725 | 0.00000 | -2.88725 | 1 | Ag_1 |
| | 0.00000 | -2.88725 | -2.88725 | 1 | Ag_1 |
| | 2.88725 | 2.88725 | 2.88725 | 2 | Br_2 |
| | -2.88725 | 2.88725 | 2.88725 | 2 | Br_2 |
| | 2.88725 | -2.88725 | 2.88725 | 2 | Br_2 |
| | -2.88725 | -2.88725 | 2.88725 | 2 | Br_2 |

| POTENTIALS | | | |
|------------|------|----|---------|
| * | ipot | Z | element |
| | 0 | 35 | Br |
| | 1 | 35 | Br |
| | 2 | 47 | Ag |

| ATOMS | | | | * this list contains 57 atoms | |
|-------|----------|----------|----------|-------------------------------|------|
| * | x | y | z | ipot | tag |
| | 0.00000 | 0.00000 | 0.00000 | 0 | Br |
| | 2.88725 | 0.00000 | 0.00000 | 2 | Ag_1 |
| | -2.88725 | 0.00000 | 0.00000 | 2 | Ag_1 |
| | 0.00000 | 2.88725 | 0.00000 | 2 | Ag_1 |
| | 0.00000 | -2.88725 | 0.00000 | 2 | Ag_1 |
| | 0.00000 | 0.00000 | 2.88725 | 2 | Ag_1 |
| | 0.00000 | 0.00000 | -2.88725 | 2 | Ag_1 |
| | 2.88725 | 2.88725 | 0.00000 | 1 | Br_1 |
| | -2.88725 | 2.88725 | 0.00000 | 1 | Br_1 |
| | 2.88725 | -2.88725 | 0.00000 | 1 | Br_1 |
| | -2.88725 | -2.88725 | 0.00000 | 1 | Br_1 |
| | 2.88725 | 0.00000 | 2.88725 | 1 | Br_1 |
| | -2.88725 | 0.00000 | 2.88725 | 1 | Br_1 |
| | 0.00000 | 2.88725 | 2.88725 | 1 | Br_1 |
| | 0.00000 | -2.88725 | 2.88725 | 1 | Br_1 |
| | 2.88725 | 0.00000 | -2.88725 | 1 | Br_1 |
| | -2.88725 | 0.00000 | -2.88725 | 1 | Br_1 |
| | 0.00000 | -2.88725 | -2.88725 | 1 | Br_1 |
| | 0.00000 | 2.88725 | -2.88725 | 1 | Br_1 |
| | 2.88725 | 2.88725 | -2.88725 | 2 | Ag_2 |
| | -2.88725 | 2.88725 | -2.88725 | 2 | Ag_2 |
| | 2.88725 | -2.88725 | -2.88725 | 2 | Ag_2 |
| | -2.88725 | -2.88725 | -2.88725 | 2 | Ag_2 |

| | | | | | | | | | |
|----|----|-------|--------|-----|------|------|------|------|-----|
| 1 | 3 | 2.887 | 100.00 | [+] | Br_1 | [+] | | | |
| 2 | 3 | 2.887 | 100.00 | [+] | Cl_1 | [+] | | | |
| 3 | 12 | 4.083 | 100.00 | [+] | Ag_1 | [+] | | | |
| 4 | 24 | 4.929 | 8.98 | [+] | Ag_1 | Br_1 | [+] | | |
| 5 | 24 | 4.929 | 7.17 | [+] | Ag_1 | Cl_1 | [+] | | |
| 6 | 8 | 5.001 | 26.06 | [+] | Br_2 | [+] | | | |
| 7 | 6 | 5.774 | 16.07 | [+] | Ag_2 | [+] | | | |
| 8 | 6 | 5.774 | 3.30 | [+] | Cl_1 | Br_1 | [+] | | |
| 9 | 6 | 5.774 | 31.08 | 1 | [+] | Ag_2 | Br_1 | [+] | |
| 10 | 6 | 5.774 | 28.47 | 1 | [+] | Ag_2 | Cl_1 | [+] | |
| 11 | 6 | 5.774 | 5.29 | 1 | [+] | Cl_1 | [+] | Br_1 | [+] |
| 14 | 3 | 5.774 | 30.14 | 2 | [+] | Br_1 | Ag_2 | Br_1 | [+] |
| 15 | 3 | 5.774 | 25.11 | 2 | [+] | Cl_1 | Ag_2 | Cl_1 | [+] |
| 18 | 24 | 5.986 | 2.69 | [+] | Br_2 | Br_1 | [+] | | |
| 20 | 48 | 5.986 | 4.20 | [+] | Br_2 | Ag_1 | [+] | | |
| 21 | 48 | 6.125 | 3.89 | [+] | Ag_1 | Ag_1 | [+] | | |

| | | | | | | | | | |
|----|----|-------|--------|-----|------|------|------|------|-----|
| 1 | 6 | 2.887 | 100.00 | [+] | Ag_1 | [+] | | | |
| 2 | 12 | 4.083 | 72.39 | [+] | Br_1 | [+] | | | |
| 3 | 48 | 4.929 | 13.76 | [+] | Br_1 | Ag_1 | [+] | | |
| 4 | 8 | 5.001 | 32.25 | [+] | Ag_2 | [+] | | | |
| 5 | 6 | 5.774 | 13.54 | [+] | Br_2 | [+] | | | |
| 6 | 6 | 5.774 | 7.56 | [+] | Ag_1 | Ag_1 | [+] | | |
| 7 | 12 | 5.774 | 42.56 | 1 | [+] | Br_2 | Ag_1 | [+] | |
| 8 | 6 | 5.774 | 13.35 | 1 | [+] | Ag_1 | [+] | Ag_1 | [+] |
| 9 | 6 | 5.774 | 2.87 | [+] | Ag_1 | [+] | Ag_1 | [+] | |
| 10 | 6 | 5.774 | 41.53 | 2 | [+] | Ag_1 | Br_2 | Ag_1 | [+] |
| 13 | 48 | 5.986 | 4.74 | [+] | Br_1 | Ag_1 | [+] | | |
| 14 | 48 | 5.986 | 5.38 | [+] | Ag_2 | Ag_1 | [+] | | |
| 15 | 48 | 5.986 | 9.90 | [+] | Ag_2 | Br_1 | [+] | | |
| 16 | 48 | 6.125 | 6.29 | [+] | Br_1 | Br_1 | [+] | | |
| 17 | 24 | 6.456 | 44.41 | [+] | Ag_3 | [+] | | | |

label:

N: 3 S02: amp*(1-x)

delE0: enot_Ag

delR: delr1

sigma^2: ss1

Ei:

3rd:

4th:

label:

N: 3 S02: amp*x

delE0: enot_Ag

delR: delr2

sigma^2: ss2

Ei:

3rd:

4th:

label:

N: 6 S02: amp

delE0: enot_Br

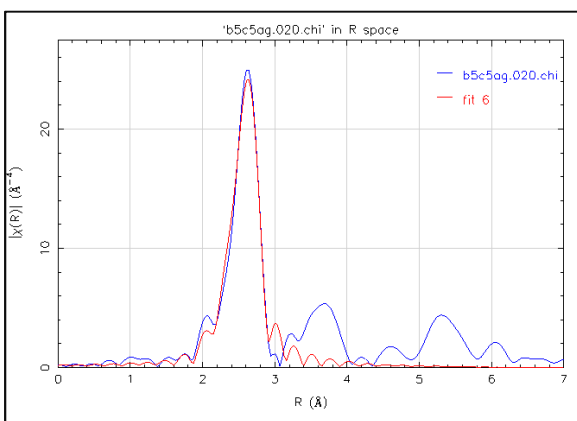
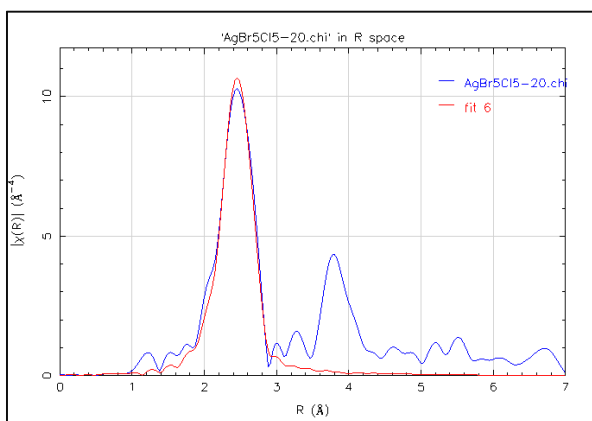
delR: delr3

sigma^2: ss3

Ei:

3rd:

4th:



```

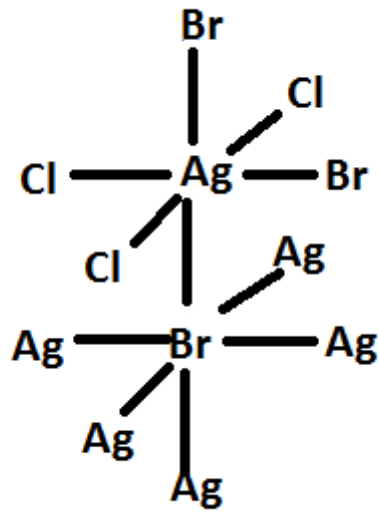
Independent points      =      32.695312500
Number of variables    =      9.000000000
Chi-square             =     10741.822449526
Reduced Chi-square    =     453.331115575
R-factor               =      0.000101615
Measurement uncertainty (k) = 0.000082258
Measurement uncertainty (R) = 0.045440538
Number of data sets   =      2.000000000

Guess parameters +/- uncertainties (initial guess):
enot_Ag      = 0.6702960 +/- 5.0365360 (0.0000)
delr1       = -0.0203880 +/- 0.0187480 (0.0000)
ss1         = 0.0016850 +/- 0.0009470 (0.0030)
enot_Br     = 3.3653260 +/- 0.7029760 (0.0000)
delr2       = -0.1801350 +/- 0.0292470 (0.0000)
ss2         = 0.0008380 +/- 0.0008000 (0.0030)
delr3       = -0.0567080 +/- 0.0027450 (0.0000)
ss3         = 0.0048650 +/- 0.0000780 (0.0030)
x           = 0.4934070 +/- 0.2195300 (0.5000)

Set parameters:
amp         = 0.9

```

2- Considerando um arranjo meridional



| POTENTIALS | | | | POTENTIALS | | | |
|------------|----|---------|--|------------|----|---------|--|
| * ipot | z | element | | * ipot | z | element | |
| 0 | 47 | Ag | | 0 | 35 | Br | |
| 1 | 47 | Ag | | 1 | 35 | Br | |
| 2 | 35 | Br | | 2 | 47 | Ag | |
| 3 | 17 | Cl | | | | | |

| ATOMS | | | | * this list contains 57 atoms | | | |
|----------|----------|----------|----------|-------------------------------|--|--|--|
| * x | y | z | ipot tag | distance | | | |
| 0.00000 | 0.00000 | 0.00000 | 0 Ag | 0.00000 | | | |
| 2.88725 | 0.00000 | 0.00000 | 2 Br_1 | 2.88725 | | | |
| -2.88725 | 0.00000 | 0.00000 | 3 Cl_1 | 2.88725 | | | |
| 0.00000 | 2.88725 | 0.00000 | 3 Cl_1 | 2.88725 | | | |
| 0.00000 | -2.88725 | 0.00000 | 3 Cl_1 | 2.88725 | | | |
| 0.00000 | 0.00000 | 2.88725 | 2 Br_1 | 2.88725 | | | |
| 0.00000 | 0.00000 | -2.88725 | 2 Br_1 | 2.88725 | | | |
| 2.88725 | 2.88725 | 0.00000 | 1 Ag_1 | 4.08319 | | | |
| -2.88725 | 2.88725 | 0.00000 | 1 Ag_1 | 4.08319 | | | |
| 2.88725 | -2.88725 | 0.00000 | 1 Ag_1 | 4.08319 | | | |
| -2.88725 | -2.88725 | 0.00000 | 1 Ag_1 | 4.08319 | | | |
| 2.88725 | 0.00000 | 2.88725 | 1 Ag_1 | 4.08319 | | | |
| -2.88725 | 0.00000 | 2.88725 | 1 Ag_1 | 4.08319 | | | |
| 0.00000 | 2.88725 | -2.88725 | 1 Ag_1 | 4.08319 | | | |
| 0.00000 | -2.88725 | -2.88725 | 1 Ag_1 | 4.08319 | | | |
| 2.88725 | 0.00000 | -2.88725 | 1 Ag_1 | 4.08319 | | | |
| -2.88725 | 0.00000 | -2.88725 | 1 Ag_1 | 4.08319 | | | |
| 0.00000 | 2.88725 | 2.88725 | 1 Br_1 | 5.00086 | | | |
| 0.00000 | -2.88725 | 2.88725 | 1 Br_1 | 5.00086 | | | |

| POTENTIALS | | | | POTENTIALS | | | |
|------------|----|---------|--|------------|----|---------|--|
| * ipot | z | element | | * ipot | z | element | |
| 0 | 35 | Br | | 0 | 47 | Ag | |
| 1 | 35 | Br | | 1 | 47 | Ag | |
| 2 | 47 | Ag | | 2 | 35 | Br | |

| ATOMS | | | | * this list contains 57 atoms | | | |
|----------|----------|----------|----------|-------------------------------|--|--|--|
| * x | y | z | ipot tag | distance | | | |
| 0.00000 | 0.00000 | 0.00000 | 0 Br | 0.00000 | | | |
| 2.88725 | 0.00000 | 0.00000 | 2 Ag_1 | 2.88725 | | | |
| -2.88725 | 0.00000 | 0.00000 | 2 Ag_1 | 2.88725 | | | |
| 0.00000 | 2.88725 | 0.00000 | 2 Ag_1 | 2.88725 | | | |
| 0.00000 | -2.88725 | 0.00000 | 2 Ag_1 | 2.88725 | | | |
| 0.00000 | 0.00000 | 2.88725 | 2 Ag_1 | 2.88725 | | | |
| 0.00000 | 0.00000 | -2.88725 | 2 Ag_1 | 2.88725 | | | |
| 2.88725 | 2.88725 | 0.00000 | 1 Br_1 | 4.08319 | | | |
| -2.88725 | 2.88725 | 0.00000 | 1 Br_1 | 4.08319 | | | |
| 2.88725 | -2.88725 | 0.00000 | 1 Br_1 | 4.08319 | | | |
| -2.88725 | -2.88725 | 0.00000 | 1 Br_1 | 4.08319 | | | |
| 2.88725 | 0.00000 | 2.88725 | 1 Br_1 | 4.08319 | | | |
| -2.88725 | 0.00000 | 2.88725 | 1 Br_1 | 4.08319 | | | |
| 0.00000 | 2.88725 | -2.88725 | 1 Br_1 | 4.08319 | | | |
| 0.00000 | -2.88725 | -2.88725 | 1 Br_1 | 4.08319 | | | |
| 2.88725 | 0.00000 | -2.88725 | 1 Br_1 | 4.08319 | | | |
| -2.88725 | 0.00000 | -2.88725 | 1 Br_1 | 4.08319 | | | |
| 0.00000 | 2.88725 | 2.88725 | 1 Ag_1 | 4.08319 | | | |
| 0.00000 | -2.88725 | 2.88725 | 1 Ag_1 | 4.08319 | | | |
| 2.88725 | 2.88725 | 2.88725 | 2 Ag_2 | 5.00086 | | | |
| -2.88725 | 2.88725 | 2.88725 | 2 Ag_2 | 5.00086 | | | |

| | | | | | |
|----|----|-------|--------|--------------------|-----|
| 1 | 3 | 2.887 | 100.00 | [+] Br_1 | [+] |
| 2 | 3 | 2.887 | 100.00 | [+] Cl_1 | [+] |
| 3 | 12 | 4.083 | 100.00 | [+] Ag_1 | [+] |
| 5 | 24 | 4.929 | 9.02 | [+] Ag_1 Br_1 | [+] |
| 6 | 24 | 4.929 | 7.20 | [+] Ag_1 Cl_1 | [+] |
| 7 | 8 | 5.001 | 26.22 | [+] Br_2 | [+] |
| 8 | 6 | 5.774 | 16.07 | [+] Ag_2 | [+] |
| 12 | 6 | 5.774 | 31.20 | [+] Ag_2 Br_1 | [+] |
| 13 | 6 | 5.774 | 28.55 | [+] Ag_2 Cl_1 | [+] |
| 19 | 3 | 5.774 | 30.38 | [+] Br_1 Ag_2 Br_1 | [+] |
| 20 | 3 | 5.774 | 25.25 | [+] Cl_1 Ag_2 Cl_1 | [+] |
| 23 | 24 | 5.986 | 2.71 | [+] Br_2 Br_1 | [+] |

| | | | | | |
|----|----|-------|--------|--------------------|----------|
| 1 | 6 | 2.887 | 100.00 | [+] Ag_1 | [+] |
| 2 | 12 | 4.083 | 72.39 | [+] Br_1 | [+] |
| 3 | 48 | 4.929 | 13.76 | [+] Br_1 Ag_1 | [+] |
| 4 | 8 | 5.001 | 32.25 | [+] Ag_2 | [+] |
| 5 | 6 | 5.774 | 13.54 | [+] Br_2 | [+] |
| 6 | 6 | 5.774 | 7.56 | [+] Ag_1 Ag_1 | [+] |
| 7 | 12 | 5.774 | 42.56 | [+] Br_2 Ag_1 | [+] |
| 8 | 6 | 5.774 | 13.35 | [+] Ag_1 | [+] Ag_1 |
| 9 | 6 | 5.774 | 2.87 | [+] Ag_1 | [+] Ag_1 |
| 10 | 6 | 5.774 | 41.53 | [+] Ag_1 Br_2 Ag_1 | [+] |
| 13 | 48 | 5.986 | 4.74 | [+] Br_1 Ag_1 | [+] |

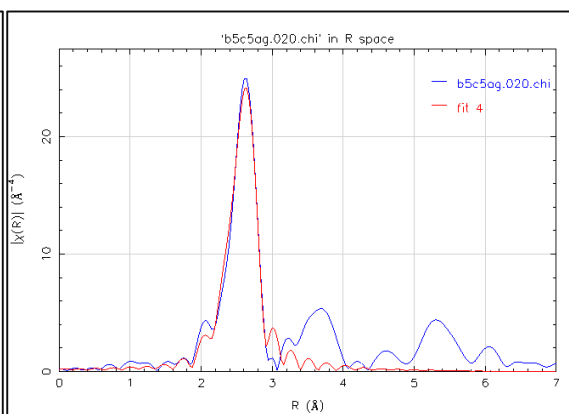
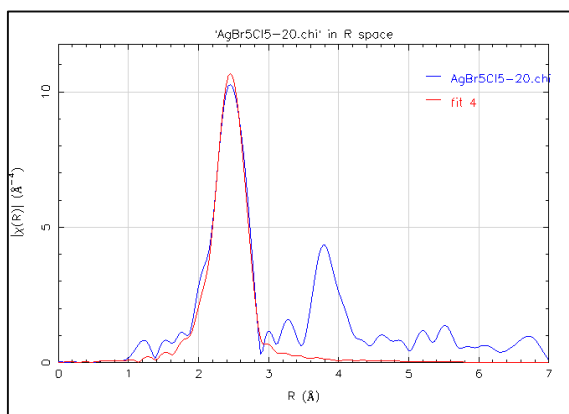

```

Independent points      =      32.695312500
Number of variables    =      9.000000000
Chi-square             =     10726.708177990
Reduced Chi-square     =     452.693256440
R-factor               =      0.000101022
Measurement uncertainty (k) = 0.000082258
Measurement uncertainty (R) = 0.045440538
Number of data sets   =      2.000000000

Guess parameters +/- uncertainties (initial guess):
enot_Ag               =      0.7340500 +/-      4.9613600 (0.0000)
delr1                 =     -0.0200840 +/-      0.0184400 (0.0000)
ss1                   =      0.0016700 +/-      0.0009520 (0.0030)
enot_Br               =      3.3626850 +/-      0.7024480 (0.0000)
delr2                 =     -0.1797630 +/-      0.0287640 (0.0000)
ss2                   =      0.0008700 +/-      0.0007880 (0.0030)
delr3                 =     -0.0567180 +/-      0.0027450 (0.0000)
ss3                   =      0.0048650 +/-      0.0000780 (0.0030)
x                     =      0.4994110 +/-      0.2164290 (0.5000)

Set parameters:
amp                   =      0.9

```



Resumo dos resultados do ajuste

| Arranjo dos ânions | Enot | r (Å) | | | Sigma ² (10 ⁻³) | | | Delta r | | | x |
|--------------------|------|-------|-------|-------|--|-----------|----------|-------------|-------------|--------------|-----------|
| | | Ag-Br | Ag-Cl | Ag-Br | ss1 | ss2 | ss3 | Delr1 | Delr2 | Delr3 | |
| Facial | 0.73 | 2.86 | 2,70 | 2.83 | 1.68±0.95 | 0.83±0.8 | 4.8±0.07 | -0.02±0.018 | -0.18±0.029 | -0.056±0.07 | 0.49±0.21 |
| Meridiano | 0.73 | 2.86 | 2.70 | 2.83 | 1.67±0.95 | 0.87±0.78 | 4.8±0.07 | -0.02±0.018 | -0.17±0.028 | -0.056±0.002 | 0.49±0.21 |