```
=> Correlation Matrix:

   Correlation:  57 > 30% for parameters:                    Scale_Factor & pos_z0202
   Correlation:  65 > 30% for parameters:                                   u & Dg
   Correlation:  47 > 30% for parameters:                       alpha0104 & alpha0203
   Correlation:  68 > 30% for parameters:                       alpha0104 & alpha0303
   Correlation:  94 > 30% for parameters:                       alpha0203 & alpha0303

=> There are   5 values of Correlation > 30%


     FINAL LIST OF REFINED PARAMETERS AND STANDARD DEVIATIONS
     ---------------------------------------------------------


   #    Parameter name                       No.(Model)           Final-Value

   1     Scale_Factor                            1                  1.01276
   2     cell_b                                  2                  3.12863
   3     u                                       3                  0.03231
   4     alpha0404                               4                  0.89216
   5     Dg                                      5                471.29327
   6     num_layers                              6                 30.18783
   7     pos_z0202                               7                  0.22297
   8     Dl                                      8                459.83646
   9     alpha0104                               9                  0.09355
  10     alpha0203                              10                  0.08156
  11     alpha0303                              11                  0.86553
  12     cell_c                                 12                  4.60858
  13     ChebCoeff_01                           13                 -0.11778
  14     ChebCoeff_02                           14                  0.10675
  15     Bkg_Scale_01                           15                  0.25372

=> Final value of Chi2:    0.05216
=> Initial Chi2:     8.75120      Convergence reached: The relative error between
=> FAULTS ended normally....
=> Total CPU-time:    2 minutes and   2.7572 seconds
```