TITLE

LiNiO2 ideal structure

```
Instrumental And Size Broadening
!Type of Radiation
Radiation X-Ray
!
        lambda1 lambda2 ratio
Wavelength
              1.5406 0.0
                            0.0
!Instrumental aberrations
                          zero
                                sycos
                                       sysin
Aberrations
                    0.0000
                            0.0000 0.0000
                    0.00
                             0.00
                                     0.00
!Instr. broadening
                    и
                             ν
                                      w
                                               Χ
                                                       Dq
                                                                DΙ
Pseudo-Voigt
                  0.11
                          -0.0036
                                     0.009
                                             0.7000
                                                     479.26
                                                              459.87 Trim
                  0.00
                           0.00
                                     0.00
                                             0.00
                                                     0.00
                                                              0.00
Structural
SPGR R-3 m
                                   alpha beta gamma
                    b
                              С
Avercell 2.8659
                  2.8659
                           14.253
                                     90
                                          90
                                               120.0
!
        а
                  b
                            С
                                   gamma
Cell
      2.8659
                2.8659
                         14.253
                                    120.0
      11.00
               11.00
                         1.00
                                    0.00
! FullProf Studio commands
FST CMD SEQ 9123123123
FST CMD CONN NI O 0.0 2.0
FST_CMD box -2 2 -2 2 -0.01 1.01
FST_CMD stack_vect 0 0 0.5
!Laue symmetry
Symm unknown
!Number of layer types
Nlayers 3
!Layer width
Lwidth infinite
Layer 1
!Layer symmetry
LSYM none
!Atom name number x
                            у
                                    Ζ
                                          Biso
                                                Occ
Atom Ni3+
              1
                   0.000
                          0.000 0.000
                                          8.0
                                                1.0
                   0.00
                           0.00
                                  0.00
                                          1.00
                                                0.00
!Atom name number x
                                         Biso
                                                Occ
                           У
                                    z
Atom O2-
                    1/3
                           2/3
                                 -0.075
                                         1.0
                                                1.0
                    1.00
                           0.00
                                  0.00
                                         0.00
                                               0.00
                                   Ζ
!Atom name number x
                           У
                                        Biso
                                               Occ
                    2/3
                           1/3
Atom O2-
             3
                                 0.075
                                         1.0
                                               1.0
```

0.00

0.00

0.00

0.00

0.00