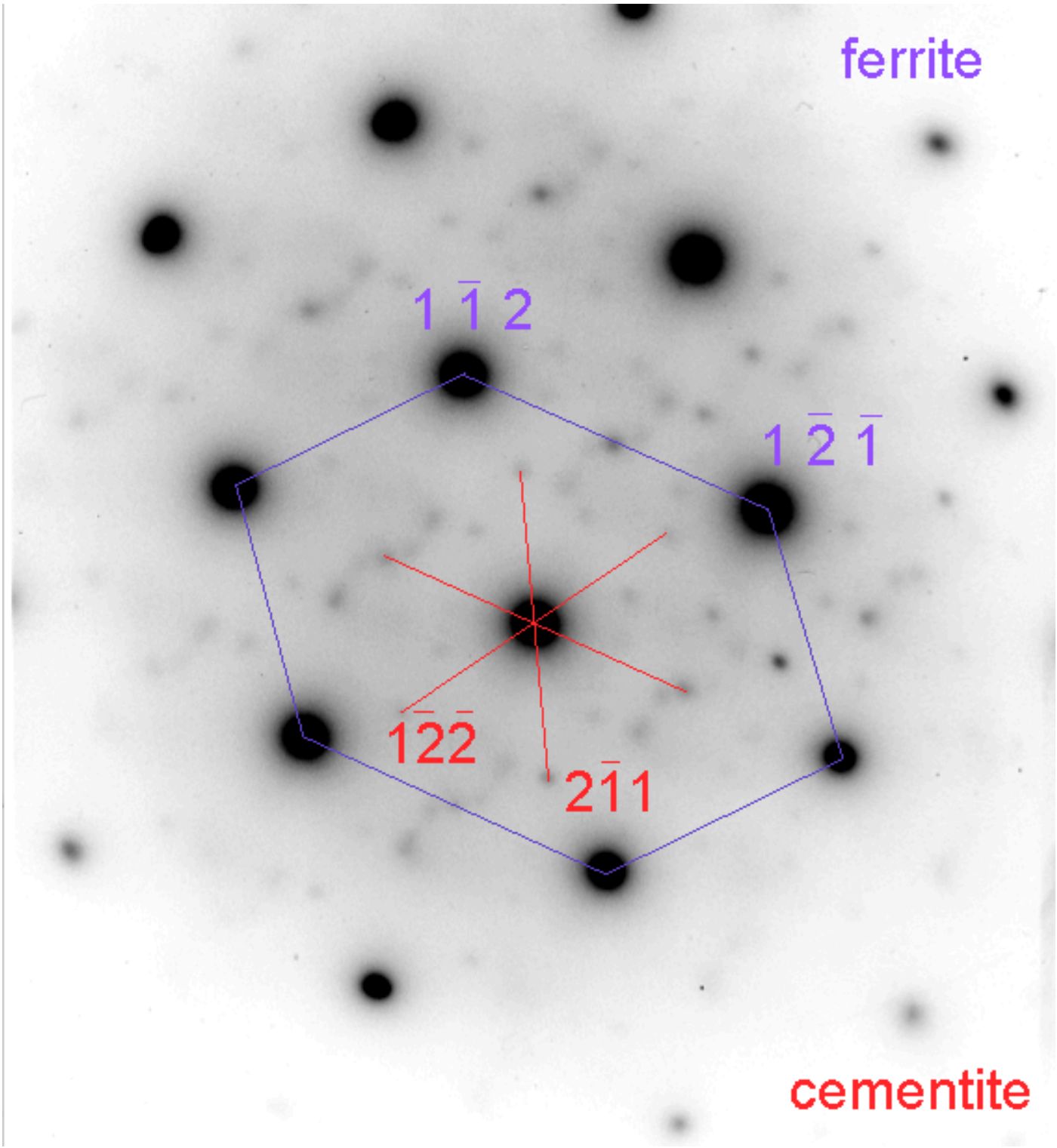
```
--------------------------------------------------------------------------------

    Vector 1                    Vector 2                Zone Axis

  (h  k  l)      d        (h  k  l)     d         [U      V      W]    Angle

--------------------------------------------------------------------------------




          Continue analysis   ( = 1)
          Fresh analysis      ( = 2)
          Exit to main menu   ( = 0) ?

2




            ***************************************************

              All dimensions in Angstroms, All angles in degrees

              If the camera constant is known, input data consist
              of d-spacings obtained from two reciprocal lattice
              vectors, and the acute angle between these vectors.
              If the camera constant is unknown, then the ratio
              of the  vectors may be used instead.

            ***************************************************



                          Is the Camera Constant known? (0 = No, 1 = Yes)

0
           Do you wish to avoid crystallographically
            equivalent solutions (0 = No, 1 = Yes) ?

1
```

```
                        Specify maximum range of Miller Index
                             Typical value = 3  (avoid values > 4)
                             Larger values lead to longer run times
                              PHX: use SETJD TIME=5mins to avoid errors


5


        Choose Crystal System

           1 = Cubic          4 = Hexagonal or Trigonal
           2 = Tetragonal     5 = Monoclinic
           3 = Orthorhombic   6 = Triclinic



1
         Choose Lattice Type

              1 = Primitive
              2 = Body Centered (Cubic, Tetragonal, Orthorhombic)
              3 = Face Centered (Cubic, Orthorhombic)
              4 = A-Centered (Orthorhombic)
              5 = B-Centered (Orthorhombic)
              6 = C-Centered (Orthorhombic or Monoclinic)


2
           Lattice Parameter ?

2.867
           CUBIC SYSTEM    2.8670 ANGSTROMS


           Accuracy of measurement ? (Typical value 0.03)


0.03
           Ratio of two Reciprocal Lattice Vectors?

1
           Acute angle between vectors ?

80
--------------------------------------------------------------------------------

    Vector 1                   Vector 2              Zone Axis

  (h  k  l)      d        (h  k  l)     d         [U      V      W]    Angle

  0. -5. -5.  0.4055     4. -5.  3.  0.4055    -0.8165 -0.4082  0.4082  78.5
  0. -5. -3.  0.4917     4. -3.  3.  0.4917    -0.7171 -0.3586  0.5976  79.8
  0. -5. -1.  0.5623     1.  0. -5.  0.5623     0.9798 -0.0392  0.1960  78.9
  1. -5. -4.  0.4424     1.  5. -4.  0.4424     0.9701  0.0000  0.2425 101.0
  1. -4. -3.  0.5623     3. -1.  4.  0.5623    -0.7447 -0.5095  0.4311 101.1
  1. -2. -1.  1.1704     1. -1.  2.  1.1704    -0.8452 -0.5071  0.1690  80.4
```

```
 **************************************************

   All dimensions in Angstroms, All angles in degrees

   If the camera constant is known, input data consist
   of d-spacings obtained from two reciprocal lattice
   vectors, and the acute angle between these vectors.
   If the camera constant is unknown, then the ratio
   of the  vectors may be used instead.

 **************************************************



                  Is the Camera Constant known? (0 = No, 1 = Yes)

1
      Do you wish to avoid crystallographically
       equivalent solutions (0 = No, 1 = Yes) ?

1
                  Specify maximum range of Miller Index
                       Typical value = 3  (avoid values > 4)
                       Larger values lead to longer run times
                        PHX: use SETJD TIME=5mins to avoid errors


4


     Choose Crystal System

        1 = Cubic          4 = Hexagonal or Trigonal
        2 = Tetragonal     5 = Monoclinic
        3 = Orthorhombic   6 = Triclinic



3
      Choose Lattice Type

           1 = Primitive
           2 = Body Centered (Cubic, Tetragonal, Orthorhombic)
           3 = Face Centered (Cubic, Orthorhombic)
           4 = A-Centered (Orthorhombic)
           5 = B-Centered (Orthorhombic)
           6 = C-Centered (Orthorhombic or Monoclinic)


1
      Lattice Parameters "a", "b", "c" ?
```

```
4.525
5.087
6.743
           ORTHORHOMBIC SYSTEM    4.5250    5.0870    6.7430 ANGSTROMS


           Accuracy of measurement ? (Typical value 0.03)


0.03
           d-spacing for first vector ?

1.97
           d-spacing for second vector ?

1.82
           Acute angle between vectors ?

60
--------------------------------------------------------------------------------

    Vector 1                  Vector 2               Zone Axis

  (h  k  l)      d        (h  k  l)     d         [U      V      W]    Angle

  1. -2. -2.  1.8525     2. -1.  1.  1.9765    -0.5657 -0.7071  0.4243  61.3


          Continue analysis   ( = 1)
          Fresh analysis      ( = 2)
          Exit to main menu   ( = 0) ?
```


ferrite
1 $\bar{1}$ 2
1 $\bar{2}$ $\bar{1}$
1$\bar{2}\bar{2}$
2$\bar{1}$1
cementite