INTRODUCTION TO GEOLIME

Variography made easy in Python





```
• • •
vario_exp_160_major = geo.variogram(
    composite,
    attribute='Fe203',
    region='HighGradeZone',
    geographic_azimuth=160,
    dip=0,
    pitch=0,
    lags=lags,
    tol=tol,
    atol=45
vario_exp_160_minor = geo.variogram(
    composite,
    attribute='Fe203',
    region='HighGradeZone',
    geographic_azimuth=70,
    dip=0,
    pitch=0,
    lags=lags,
                                                     3279
    tol=tol,
                                                           3812
                                                                       6093
                                                                                         5133
                                                                                              4697
    atol=45
                                 100000
                                  80000 -
geo.plot_semivariogram(
                               Semivariance
    variograms=[
      vario_exp_160_major,
                                  60000
      vario_exp_160_minor
    ],
                                  40000
    display_npairs=True
                                  20000
                                                                          A: 160.0, D: 0.0, P: 0.0
                                                                        - A: 70.0, D: 0.0, P: 0.0
                                       0
                                               25
                                                              75
                                        0
                                                       50
                                                                     100
                                                                             125
                                                                                    150
                                                                                            175
                                                              Average distance
```

```
cov_model = geo.Nugget() + geo.Spherical()
geo.model_fit(
      vario_exp_160_major,
      vario_exp_160_minor
    ],
    cov_model
geo.plot_semivariogram(
    variograms=[
      vario_exp_160_major,
      vario_exp_160_minor
    ],
    model=cov_model,
    model_angles=[
      {
         "azi":160,
         "dip":0,
         "pitch":0,
         "label":"N160"
                                  100000 -
      },
                                    80000 -
         "azi":70,
                                Semivariance
         "dip":0,
         "pitch":0,
                                   60000
         "label": "N070"
                                    40000
                                                                        - A: 160.0, D: 0.0, P: 0.0
                                                                      A: 70.0, D: 0.0, P: 0.0
                                    20000
                                                                          A: 160.0, D: 0.0, P: 0.0, N160
                                                                          A: 70.0, D: 0.0, P: 0.0, N070
                                        0
                                                 25
                                                         50
                                          0
                                                                 75
                                                                        100
                                                                                125
                                                                                        150
                                                                                                175
                                                                 Average distance
```

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HOW EASY WAS THAT?

Check our documentation for more example, and let's rock!



DEEPLIME