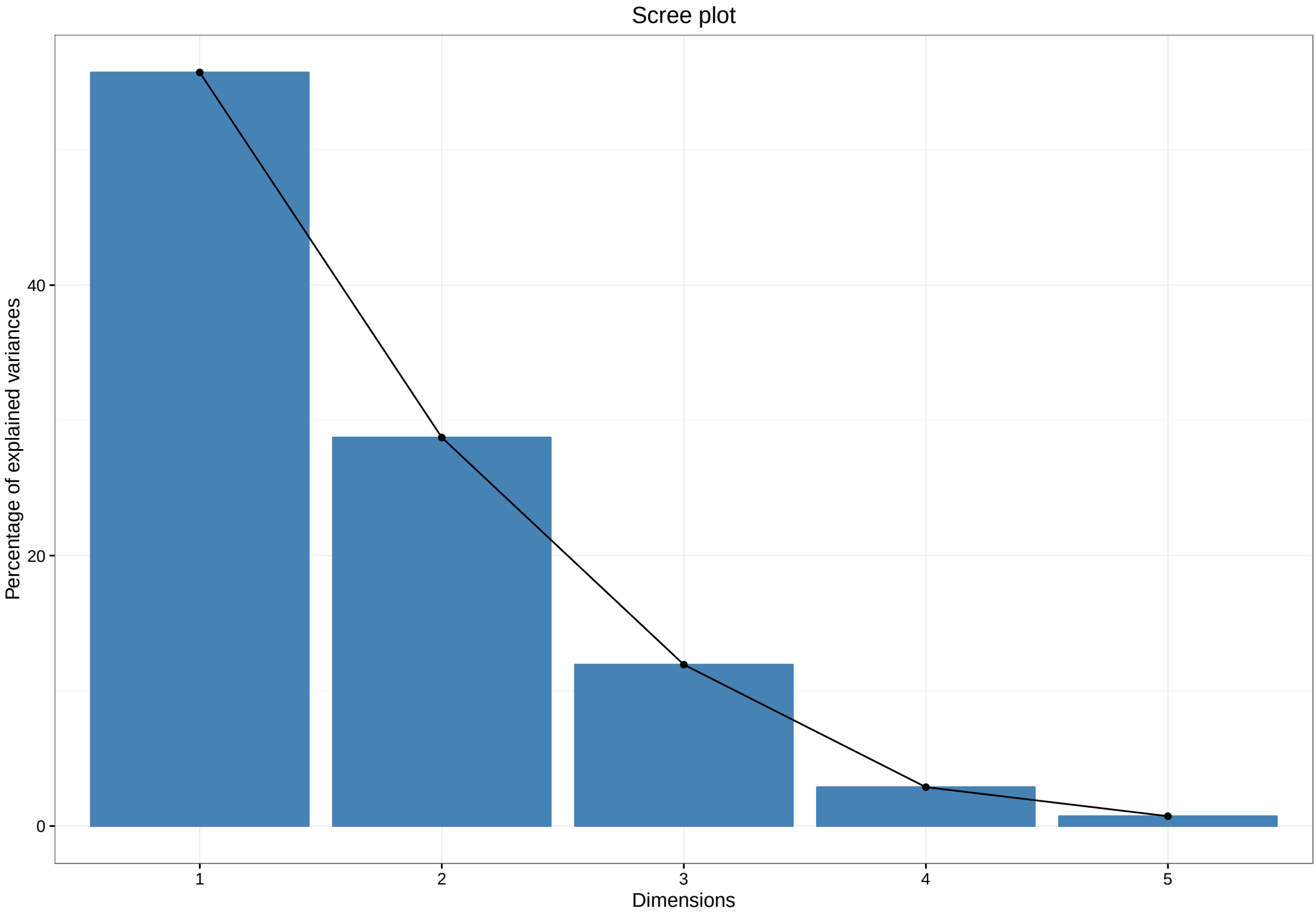
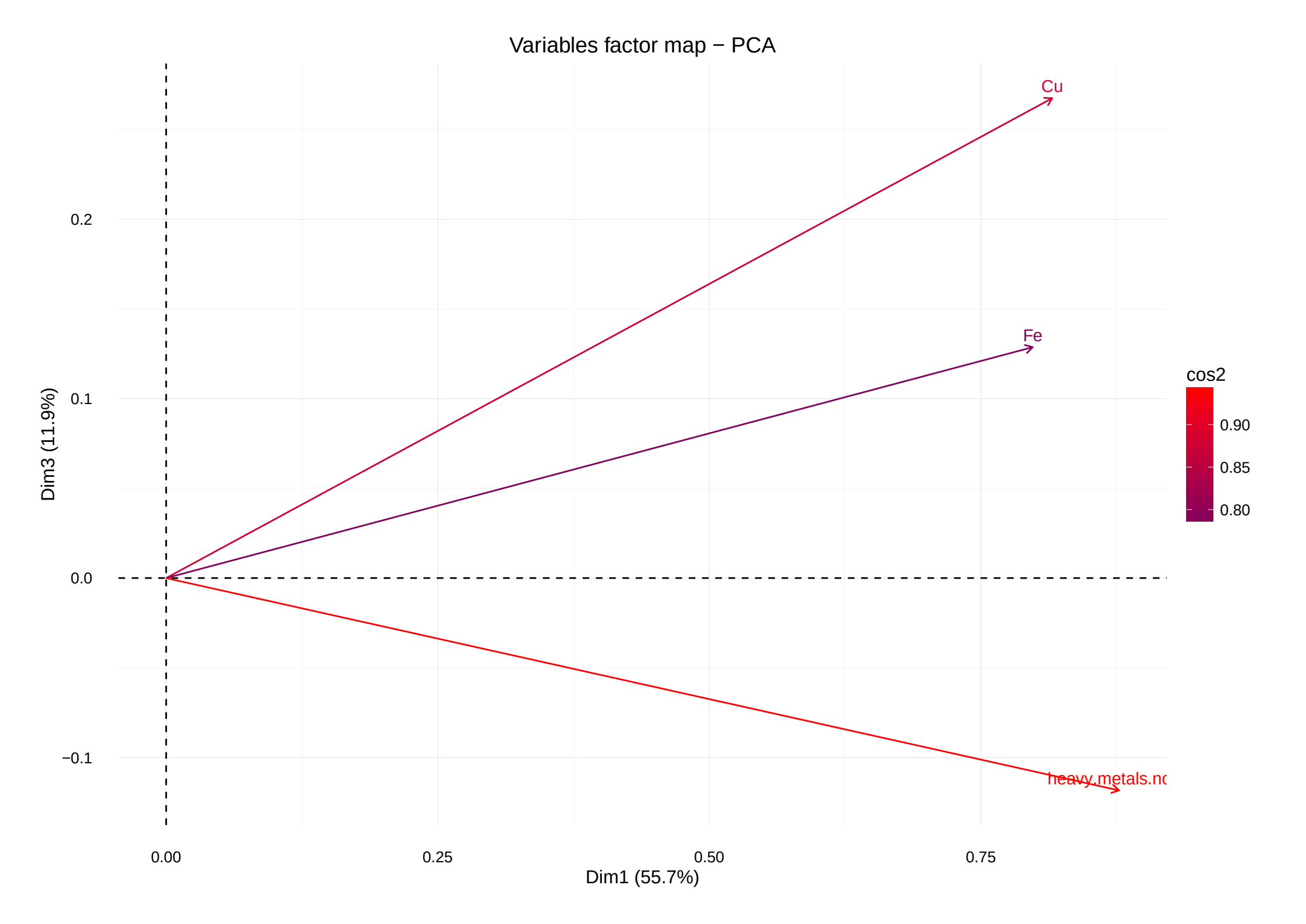
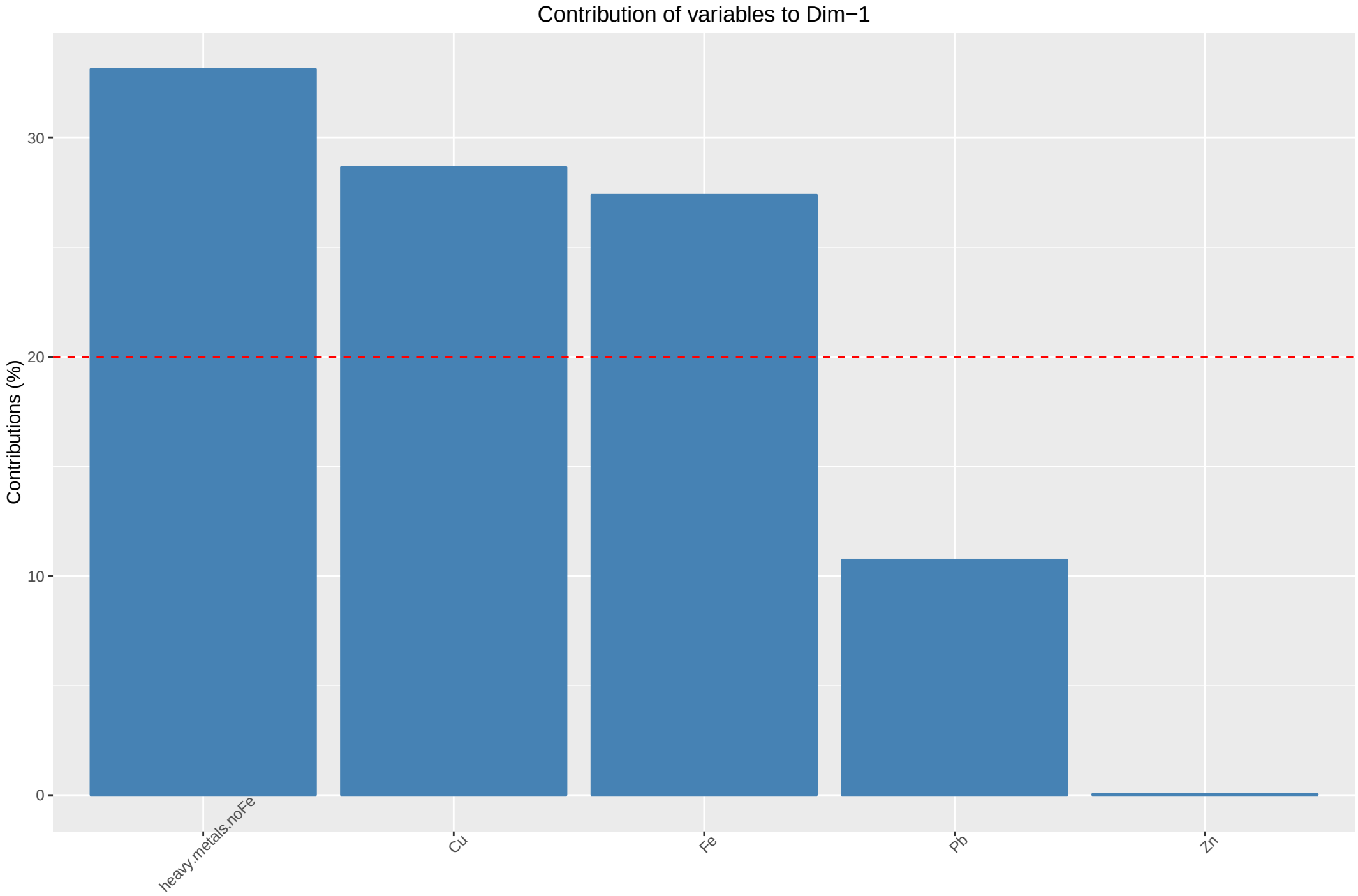
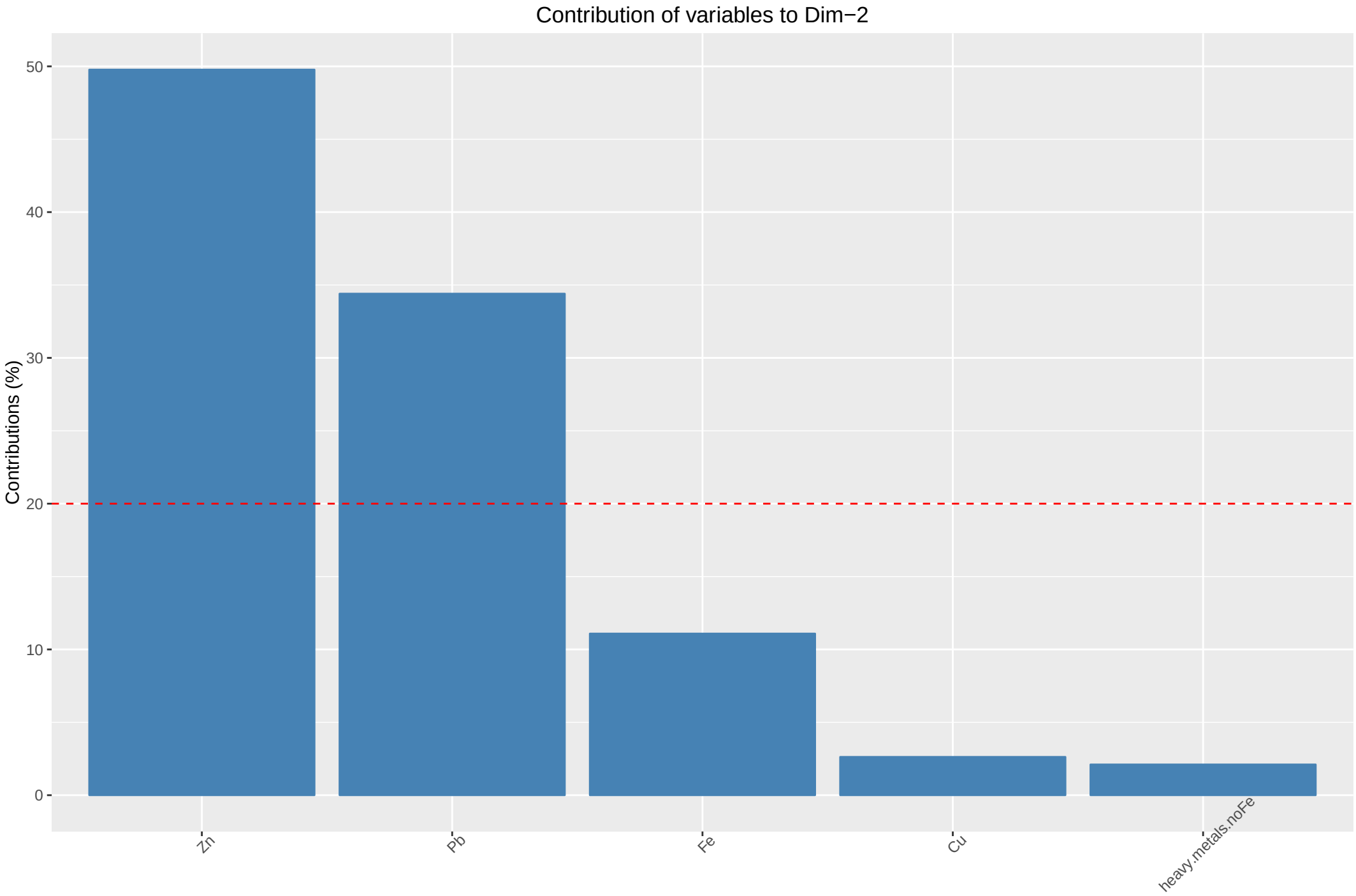
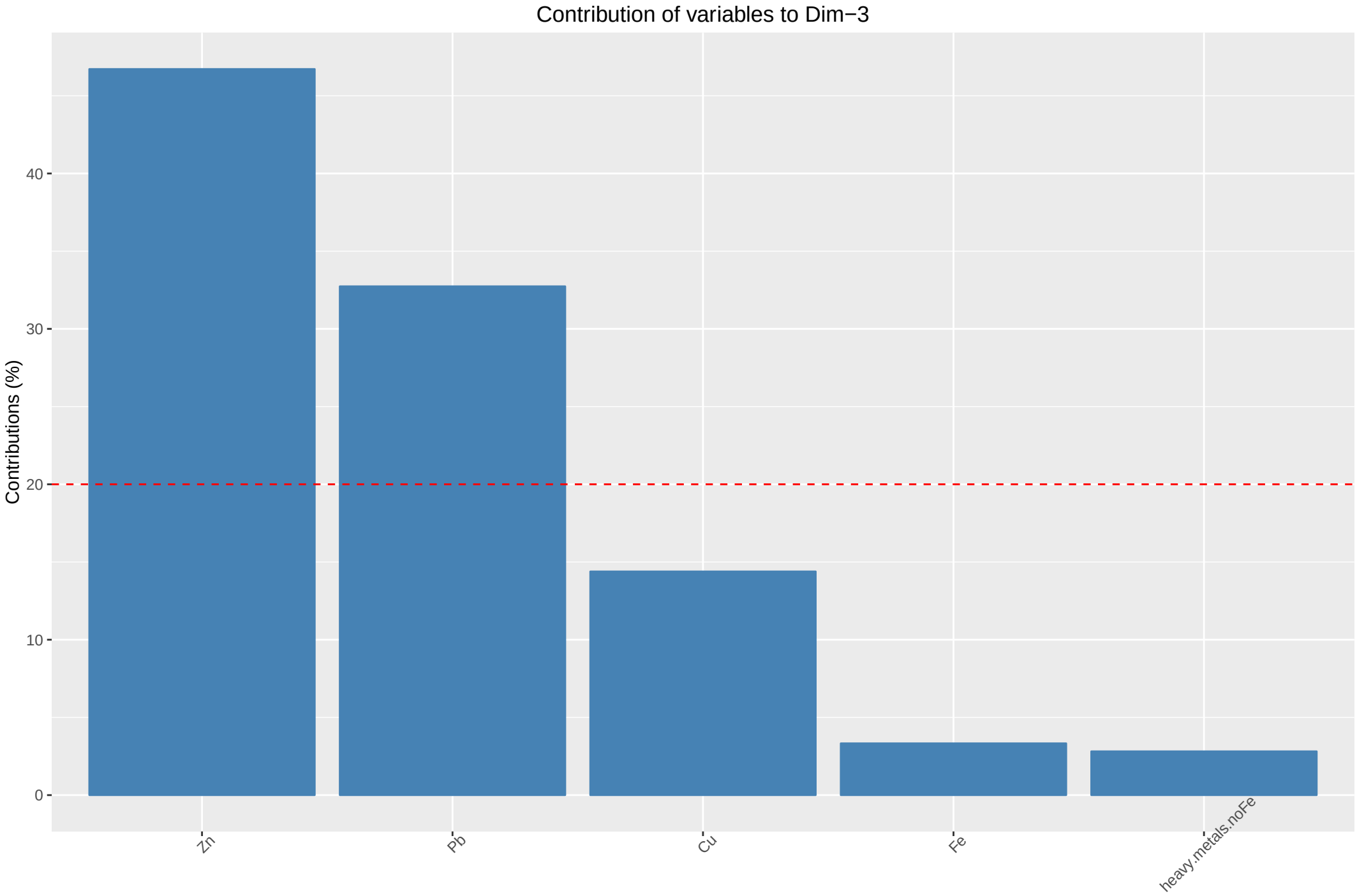

Scree plot
Percentage of explained variances
40
20
0
1
2
3
4
5
Dimensions

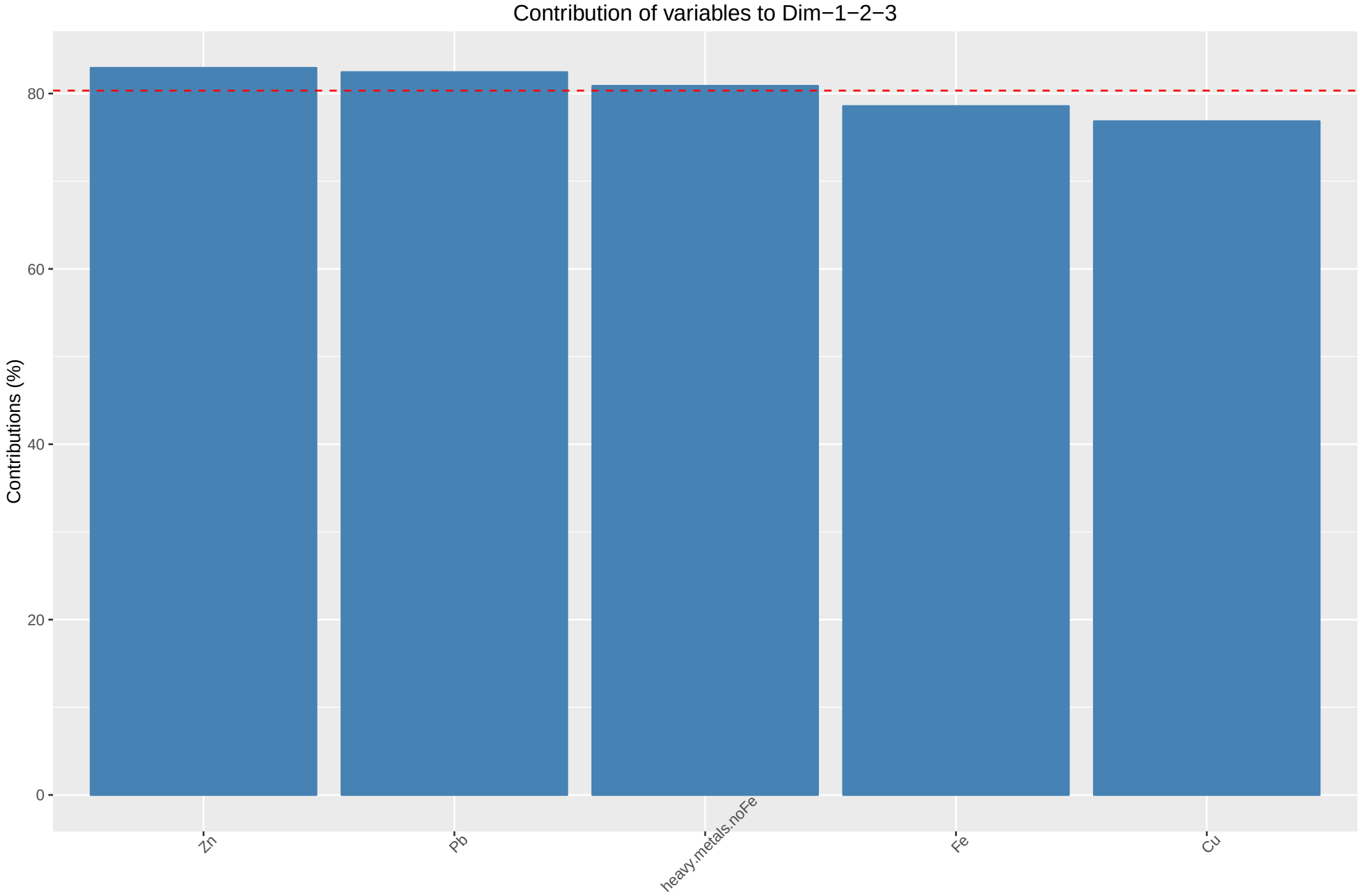
Variables factor map − PCA
Zn
Pb
heavy.metals.nc
Cu
Fe
0.8
0.4
0.0
−0.4
0.00
0.25
0.50
0.75
Dim2 (28.7%)
Dim1 (55.7%)
cos2
0.95
0.90
0.85
0.80
0.75

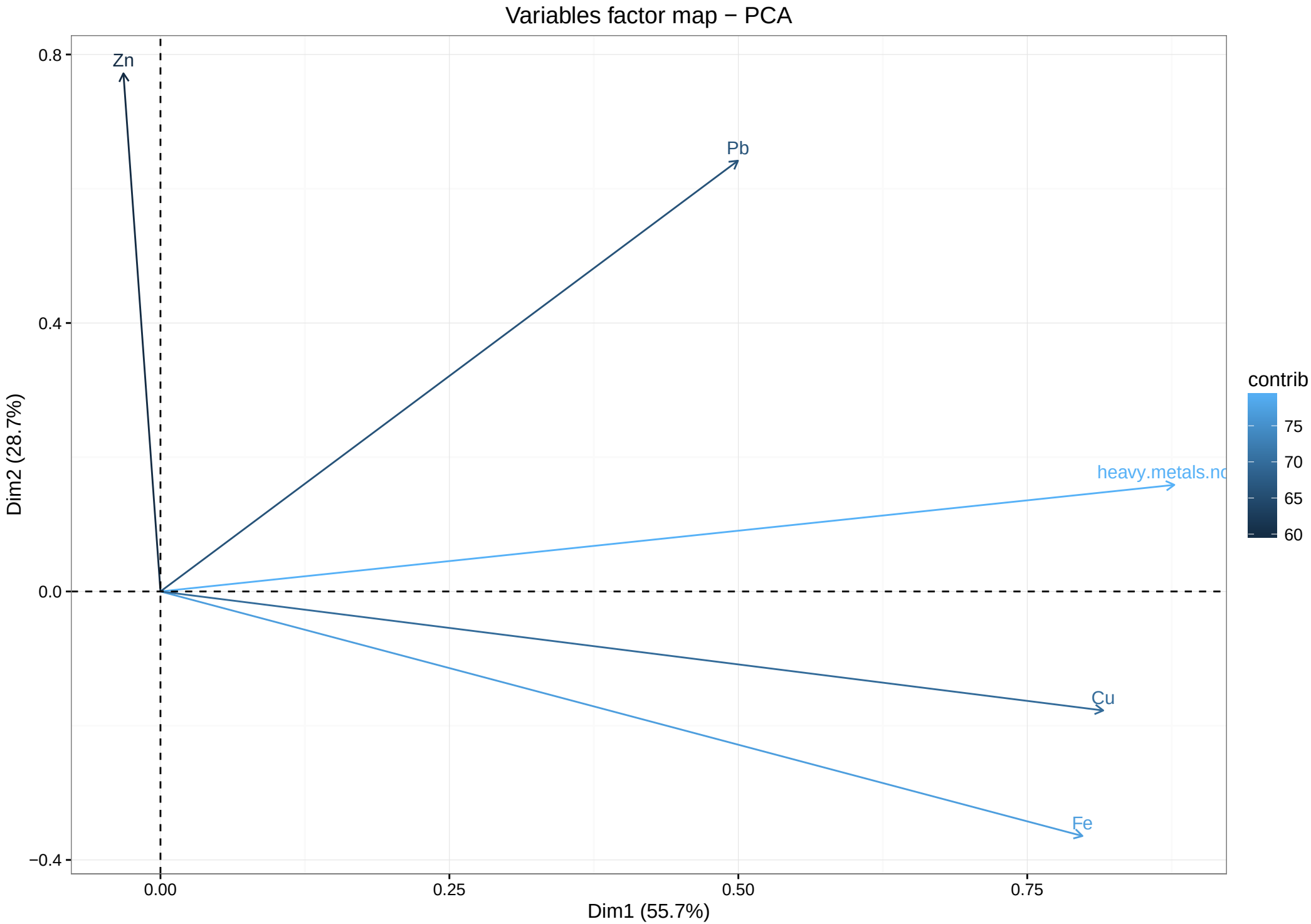

Variables factor map − PCA
Cu
Fe
heavy.metals.nc
cos2
0.90
0.85
0.80
0.2
0.1
0.0
−0.1
Dim3 (11.9%)
0.00
0.25
0.50
0.75
Dim1 (55.7%)

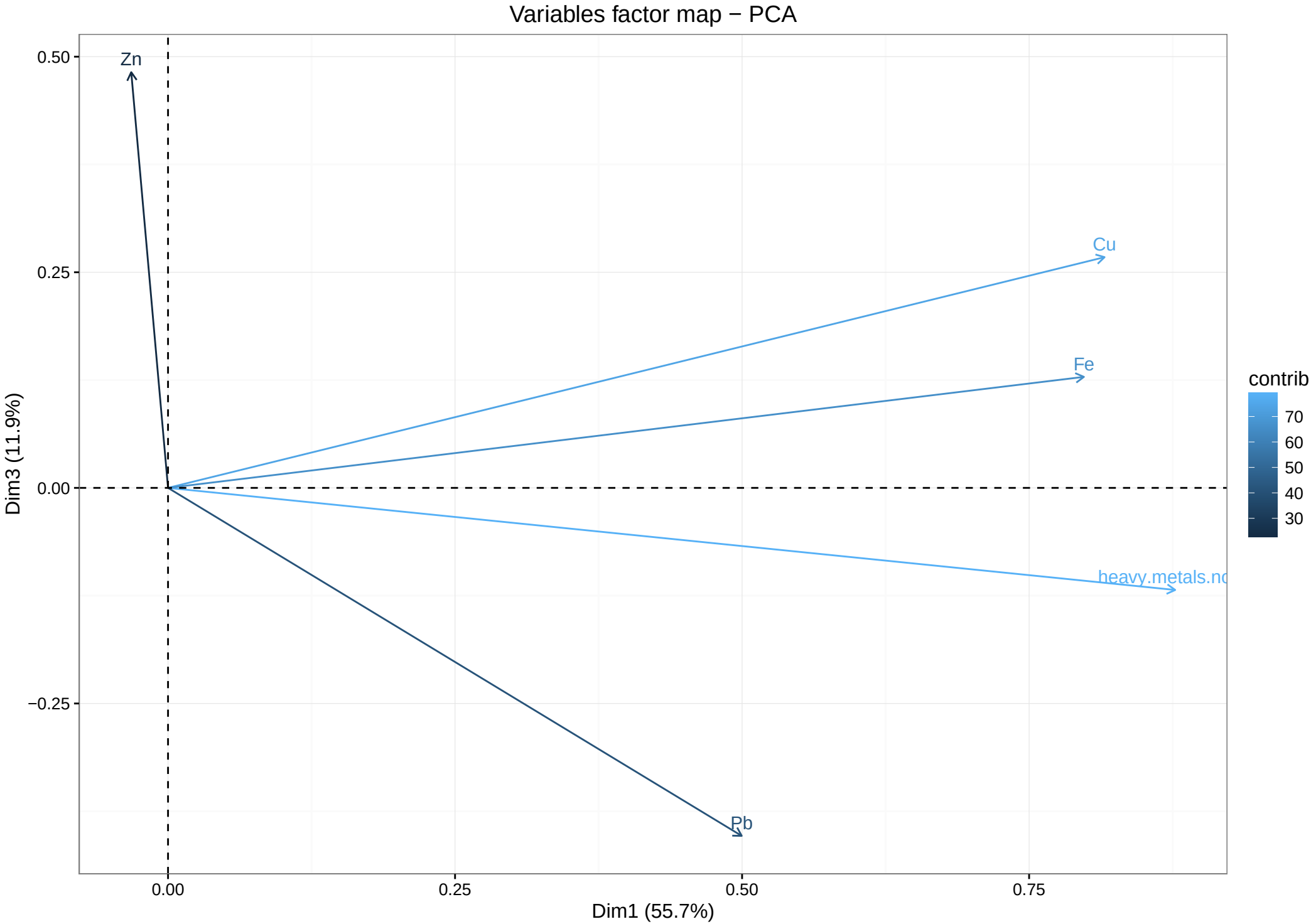

Contribution of variables to Dim−1
Contributions (%)
30
20
10
0
heavy.metals.noFe
Cu
Fe
Pb
Zn

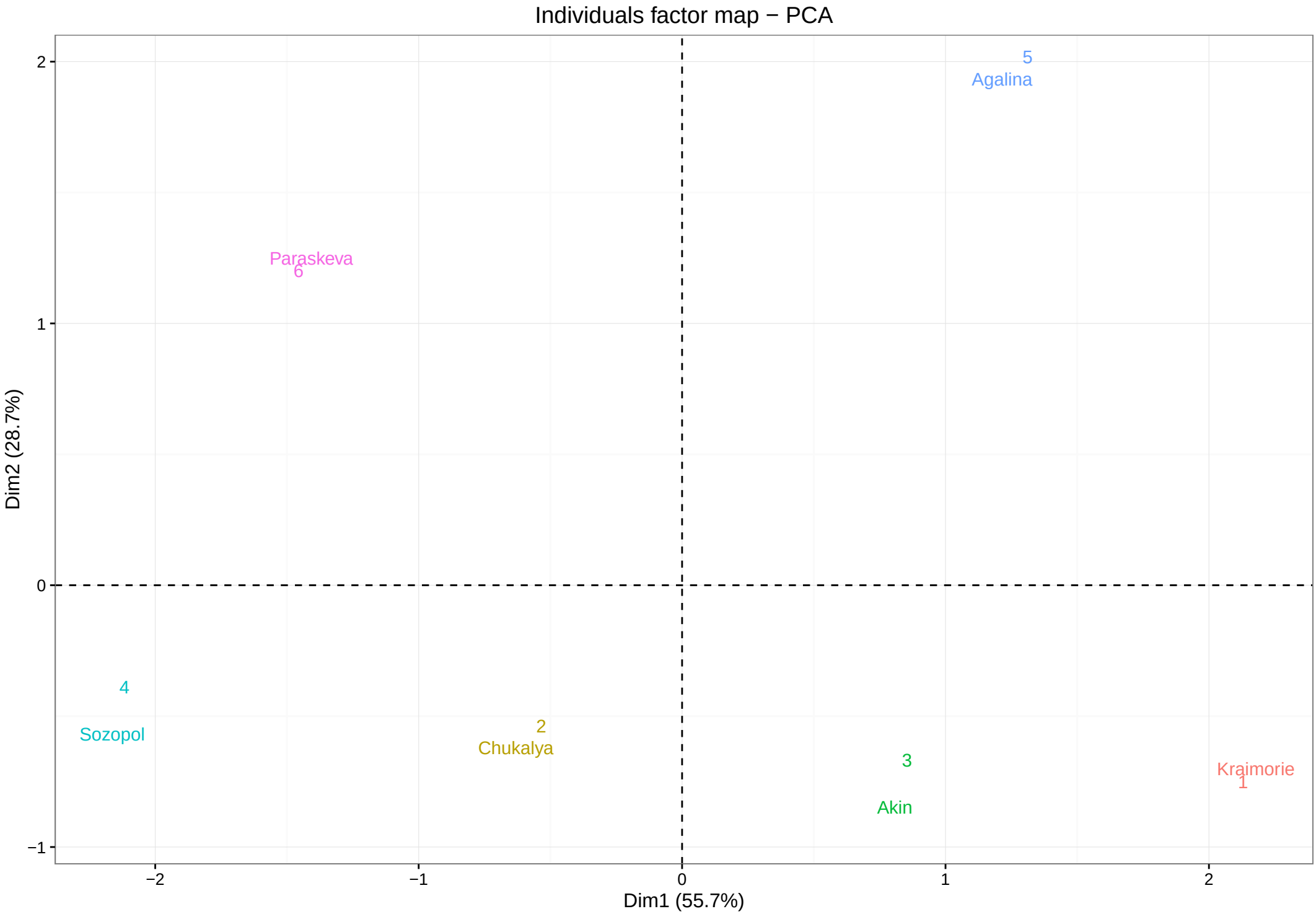

Contribution of variables to Dim−2
Contributions (%)
50
40
30
20
10
0
Zn
Pb
Fe
Cu
heavy.metals.noFe

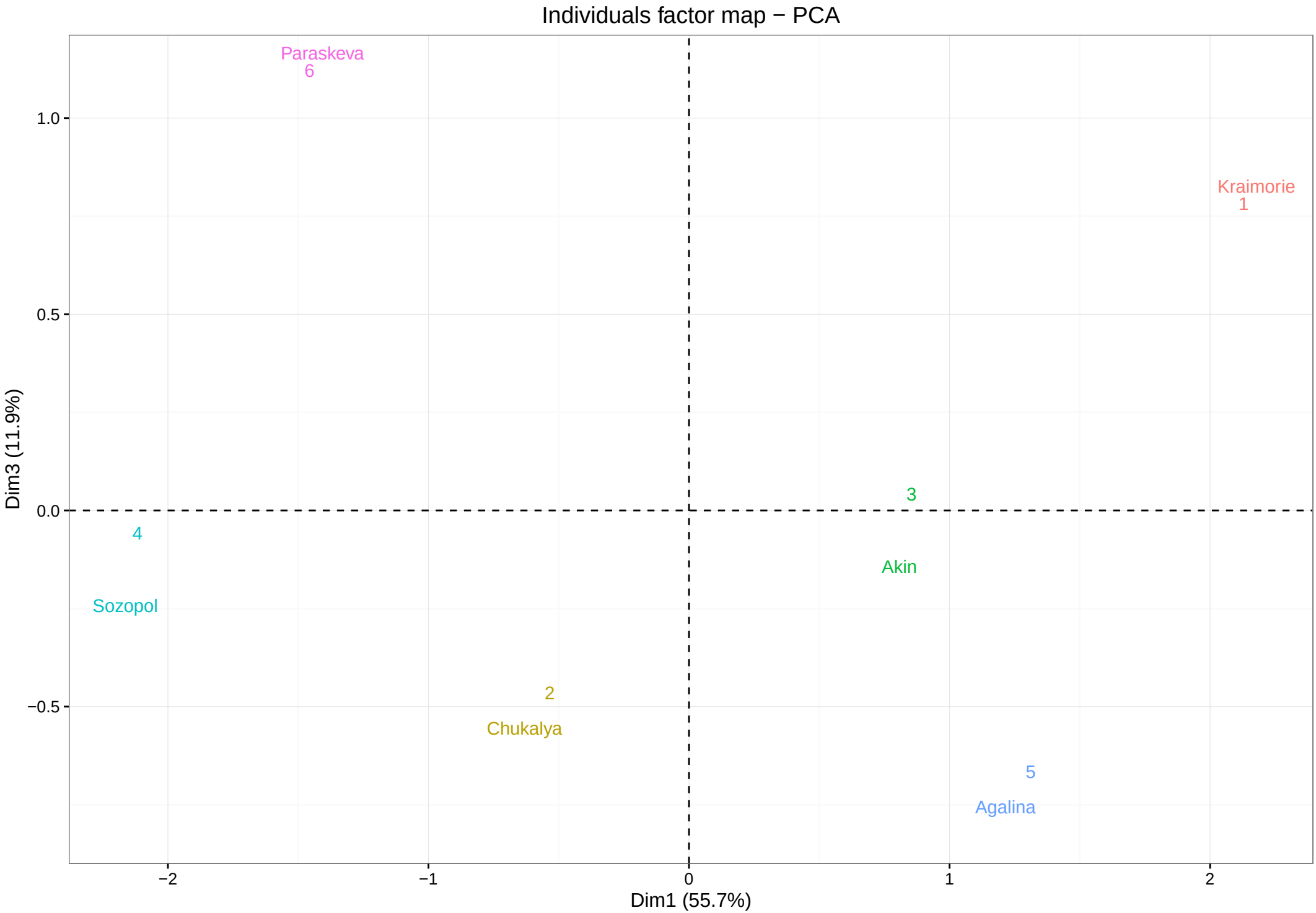

Contribution of variables to Dim−3
Contributions (%)
40
30
20
10
0
Zn
Pb
Cu
Fe
heavy.metals.noFe

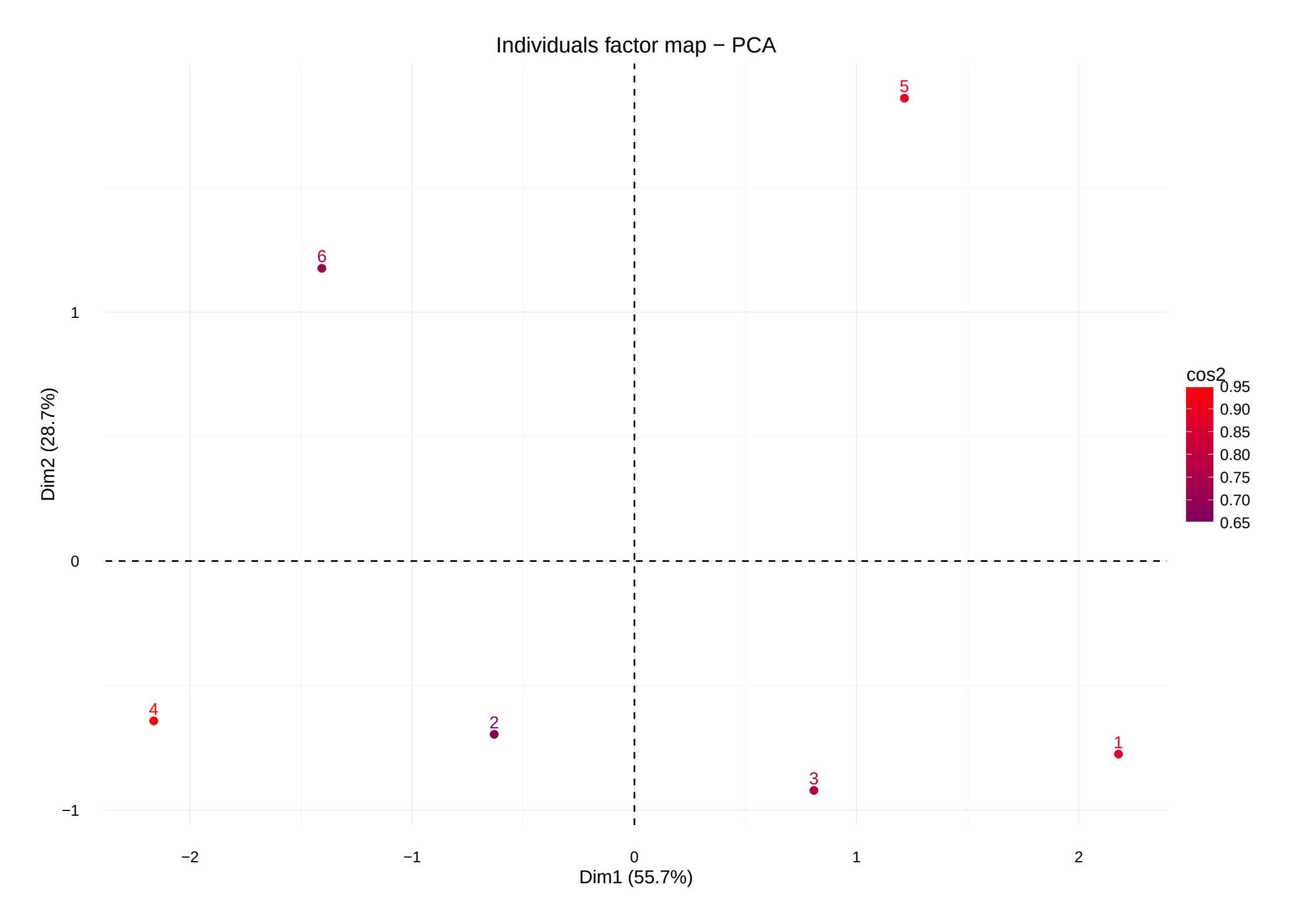

Contribution of variables to Dim−1−2−3
Contributions (%)
0
20
40
60
80
Zn
Pb
heavy.metals.noFe
Fe
Cu

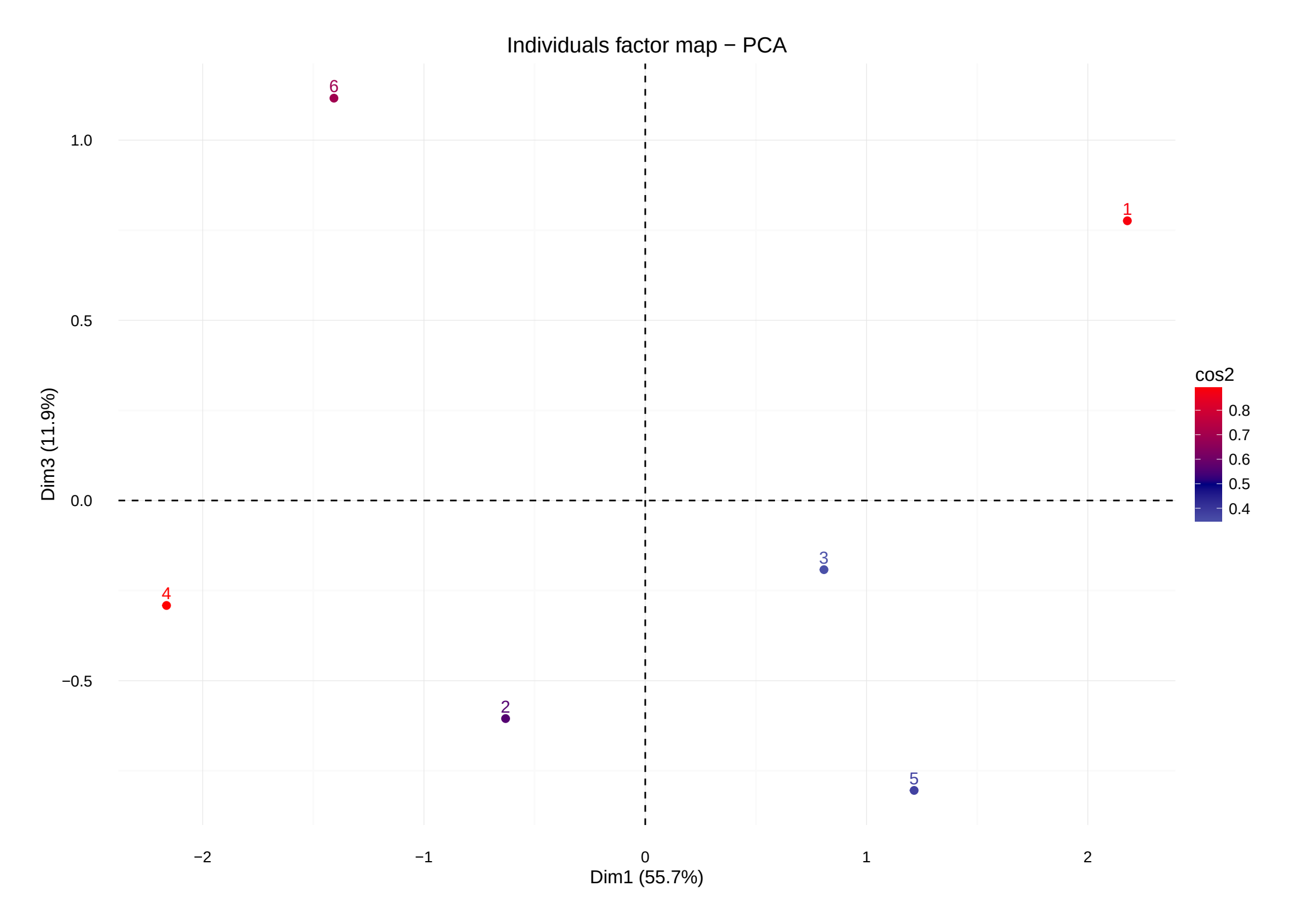

Variables factor map − PCA
Zn
Pb
heavy.metals.nc
Cu
Fe
0.8
0.4
0.0
−0.4
0.00
0.25
0.50
0.75
Dim1 (55.7%)
Dim2 (28.7%)
contrib
75
70
65
60

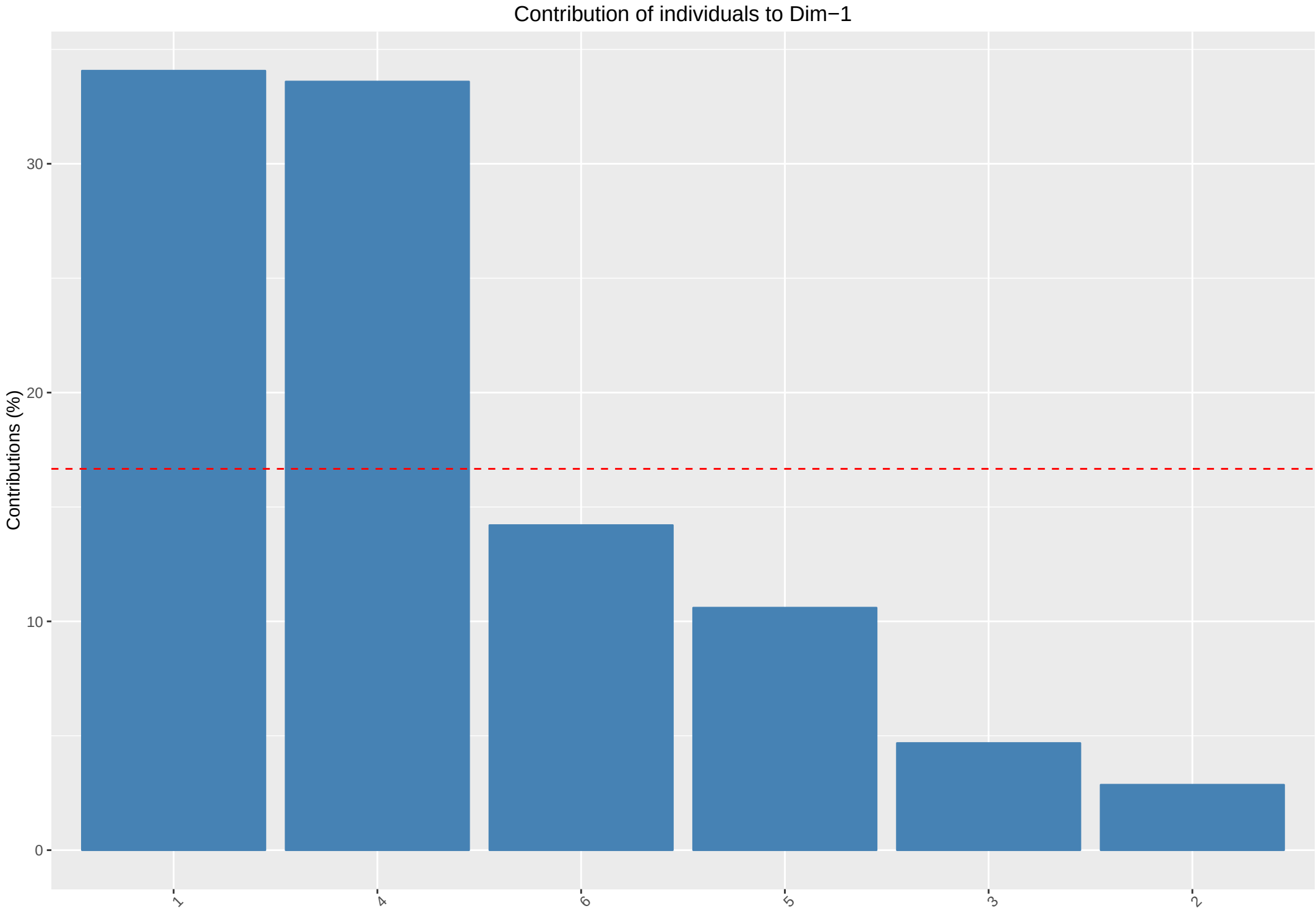

Variables factor map − PCA
Zn
Cu
Fe
heavy.metals.nc
Pb
0.50
0.25
0.00
−0.25
Dim3 (11.9%)
0.00
0.25
0.50
0.75
Dim1 (55.7%)
contrib
70
60
50
40
30

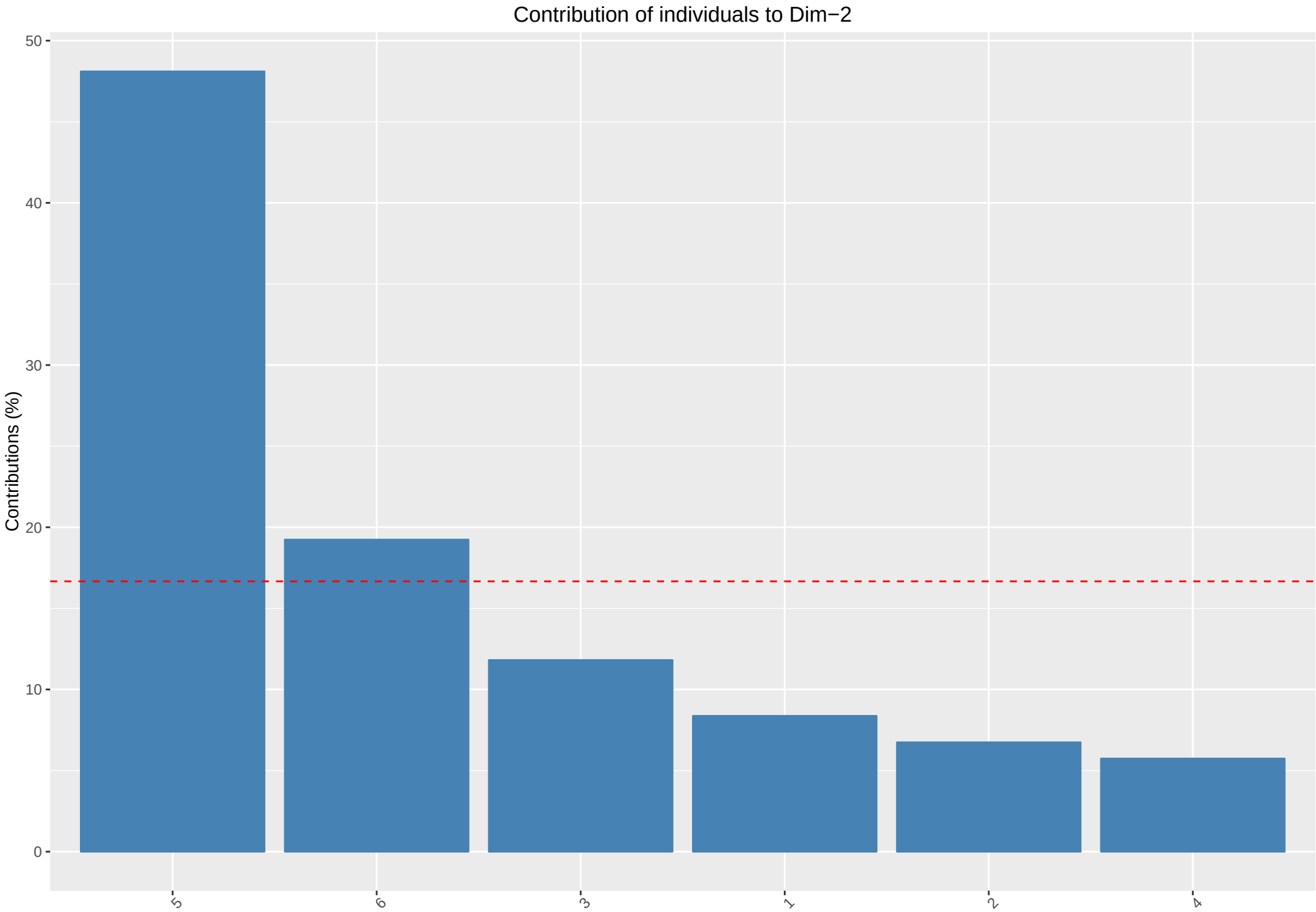

Individuals factor map − PCA
5
Agalina
Paraskeva
6
4
Sozopol
2
Chukalya
3
Akin
Kraimorie
1
Dim2 (28.7%)
Dim1 (55.7%)
2
1
0
−1
−2
−1
0
1
2

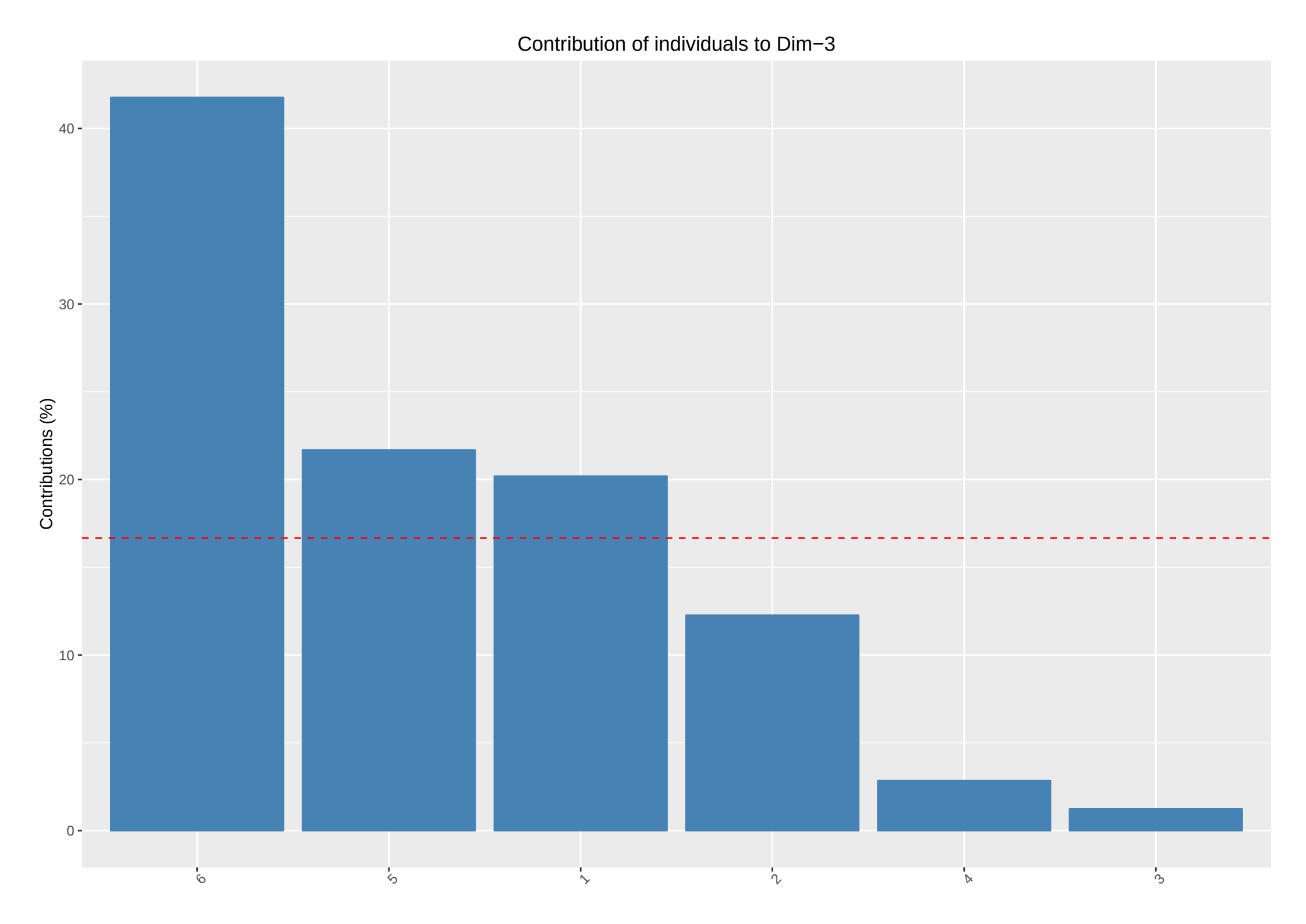

Individuals factor map − PCA
Paraskeva
6
Kraimorie
1
3
Akin
4
Sozopol
2
Chukalya
5
Agalina
1.0
0.5
0.0
−0.5
−2
−1
0
1
2
Dim3 (11.9%)
Dim1 (55.7%)

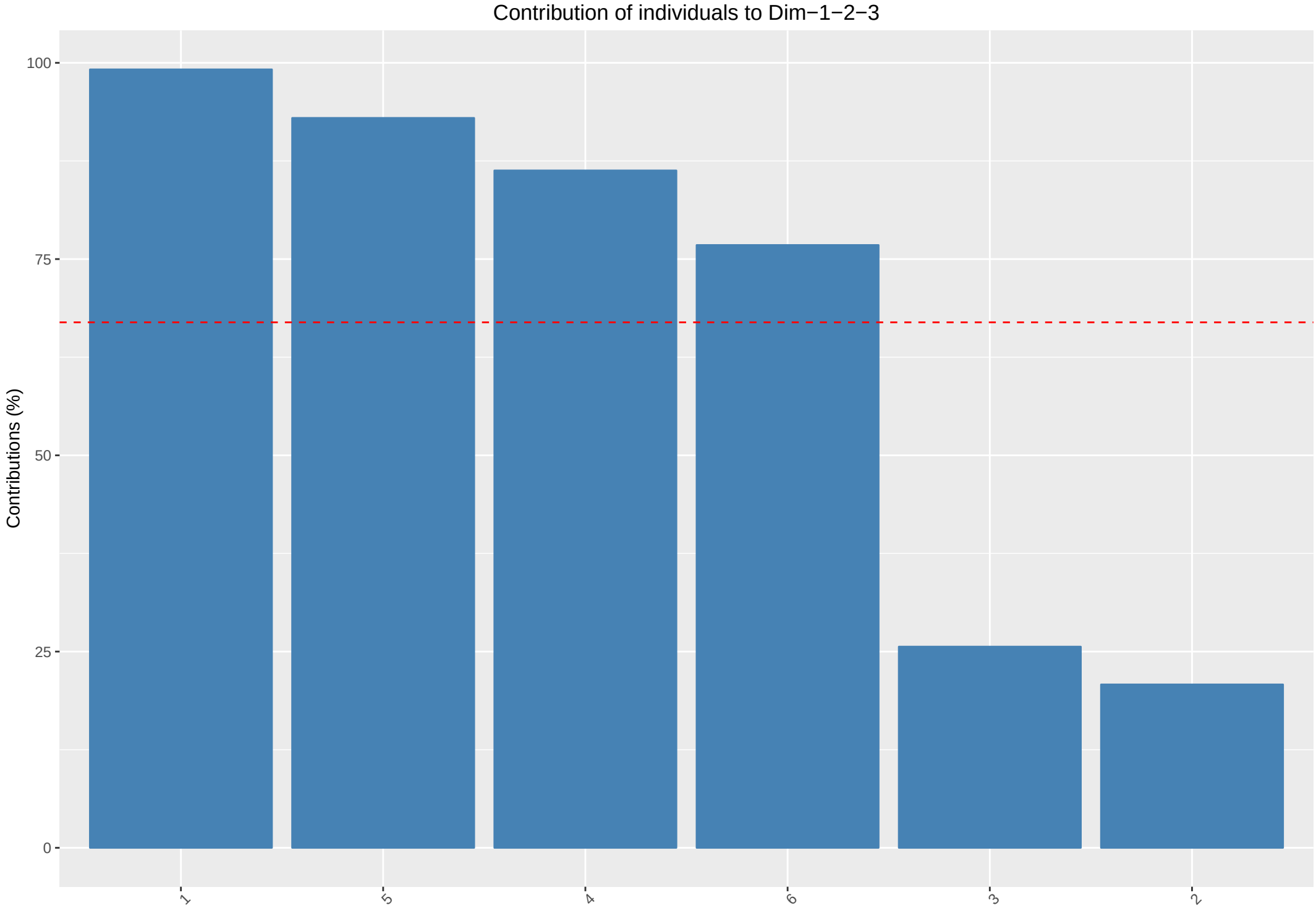

Individuals factor map − PCA
5
6
1
4
2
3
1
0
−1
−2
−1
0
1
2
Dim2 (28.7%)
Dim1 (55.7%)
cos2
0.95
0.90
0.85
0.80
0.75
0.70
0.65


Individuals factor map − PCA
6
1
4
3
2
5
1.0
0.5
0.0
−0.5
−2
−1
0
1
2
Dim3 (11.9%)
Dim1 (55.7%)
cos2
0.8
0.7
0.6
0.5
0.4


Contribution of individuals to Dim−1
Contributions (%)
30
20
10
0
1
4
6
5
3
2


Contribution of individuals to Dim−2
Contributions (%)
50
40
30
20
10
0
5
6
3
1
2
4


Contribution of individuals to Dim−3
Contributions (%)
40
30
20
10
0
6
5
1
2
4
3


Contribution of individuals to Dim−1−2−3
Contributions (%)
100
75
50
25
0
1
5
4
6
3
2