



Strong  
Ordering



Weak  
Ordering



Phase  
separation

M1  
M2

Ca

Sc

Ti

V

Cr

Mn

Fe

Co

Ni

Cu

Zn

Ti

2684

218



112

266

370

90

346

1477

2006

1616

V

3902

54

112



68

5

69

122

1019

2676

646

Zr

2009

3

362

1020

1028

773

1000

1450

104

1680

1682

Hf

2723

316

258

917

1240

1553

1069

1364

345

3995

1579