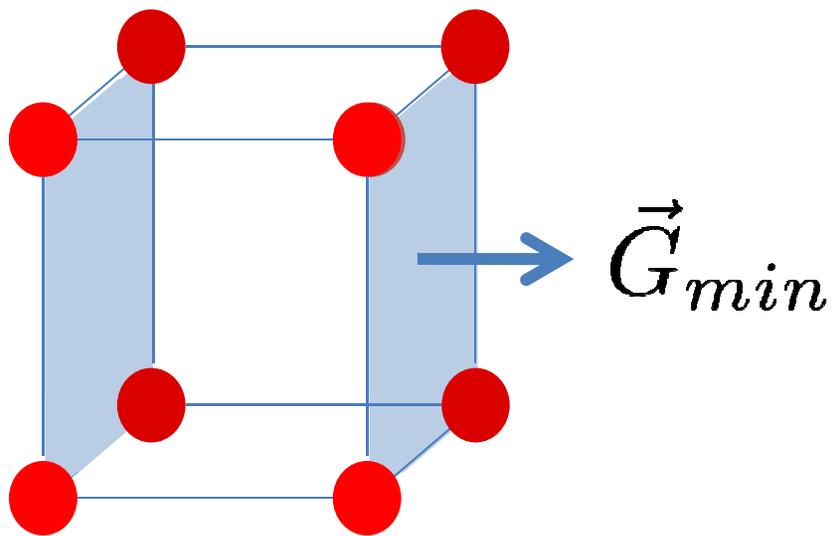
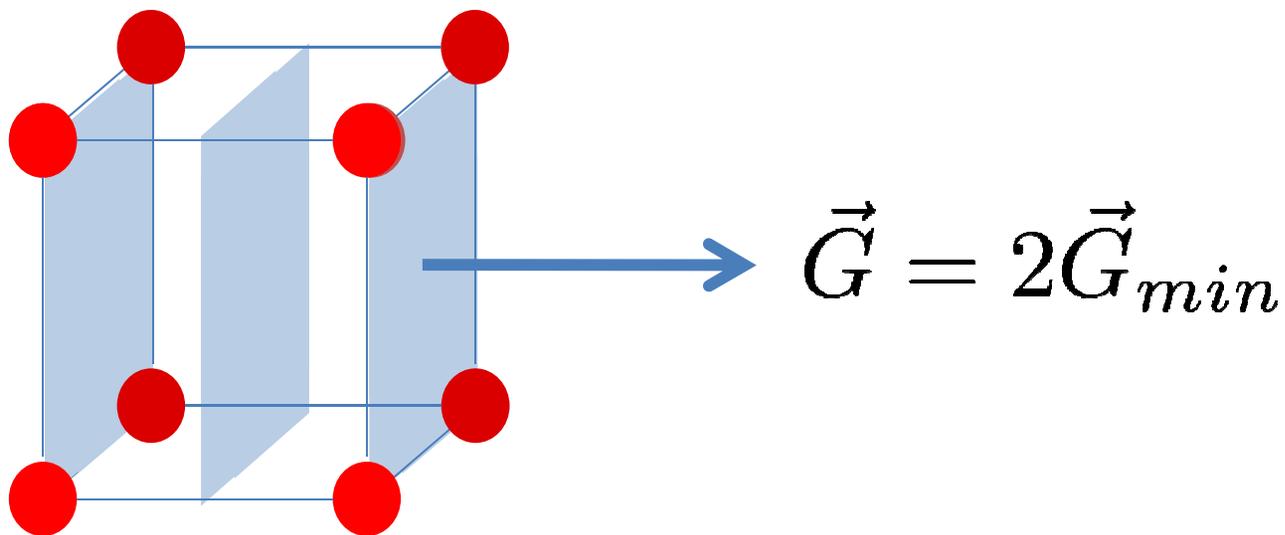


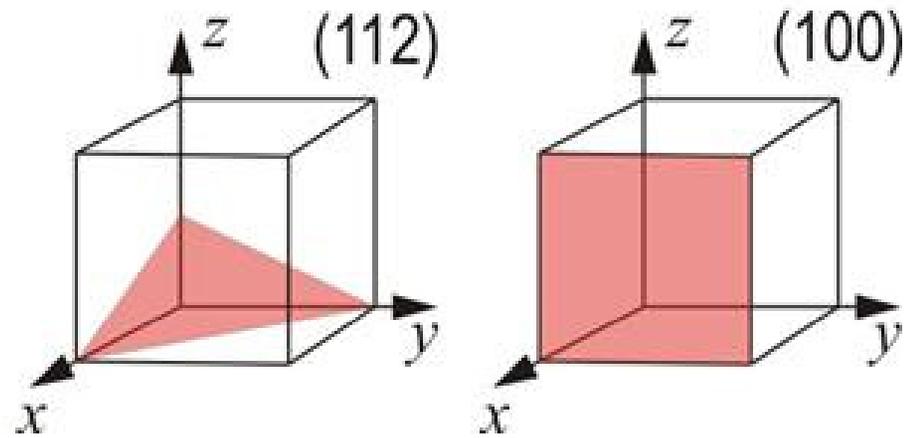
Slides  
Condensed Matter Physics  
Lecture 12

$$d = \frac{2\pi}{|\vec{G}_{min}|}$$

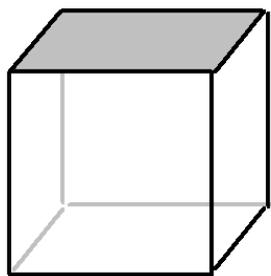


$$d = \frac{2\pi}{2|\vec{G}_{min}|}$$

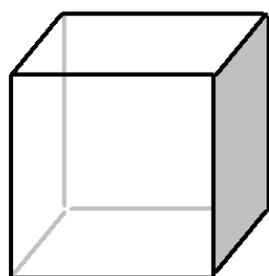




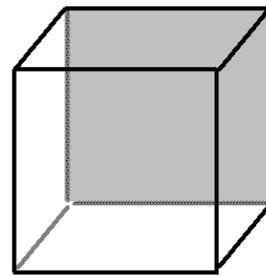
Some Examples of  
Miller Indices



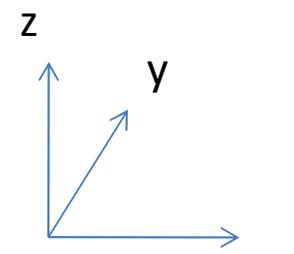
(001)



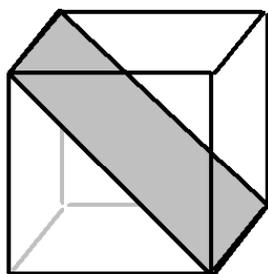
(100)



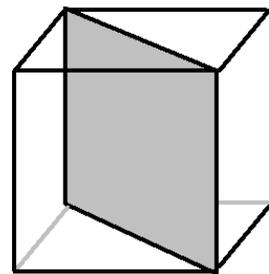
(010)



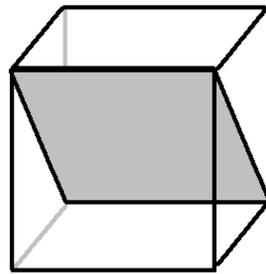
x



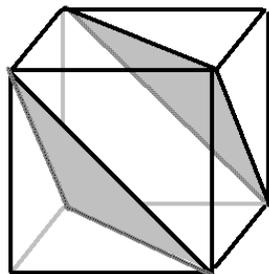
(101)



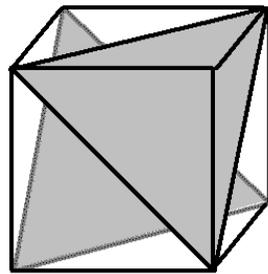
(110)



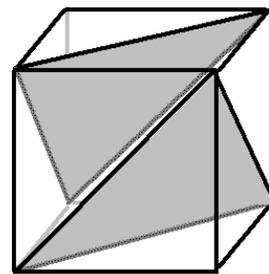
(011)



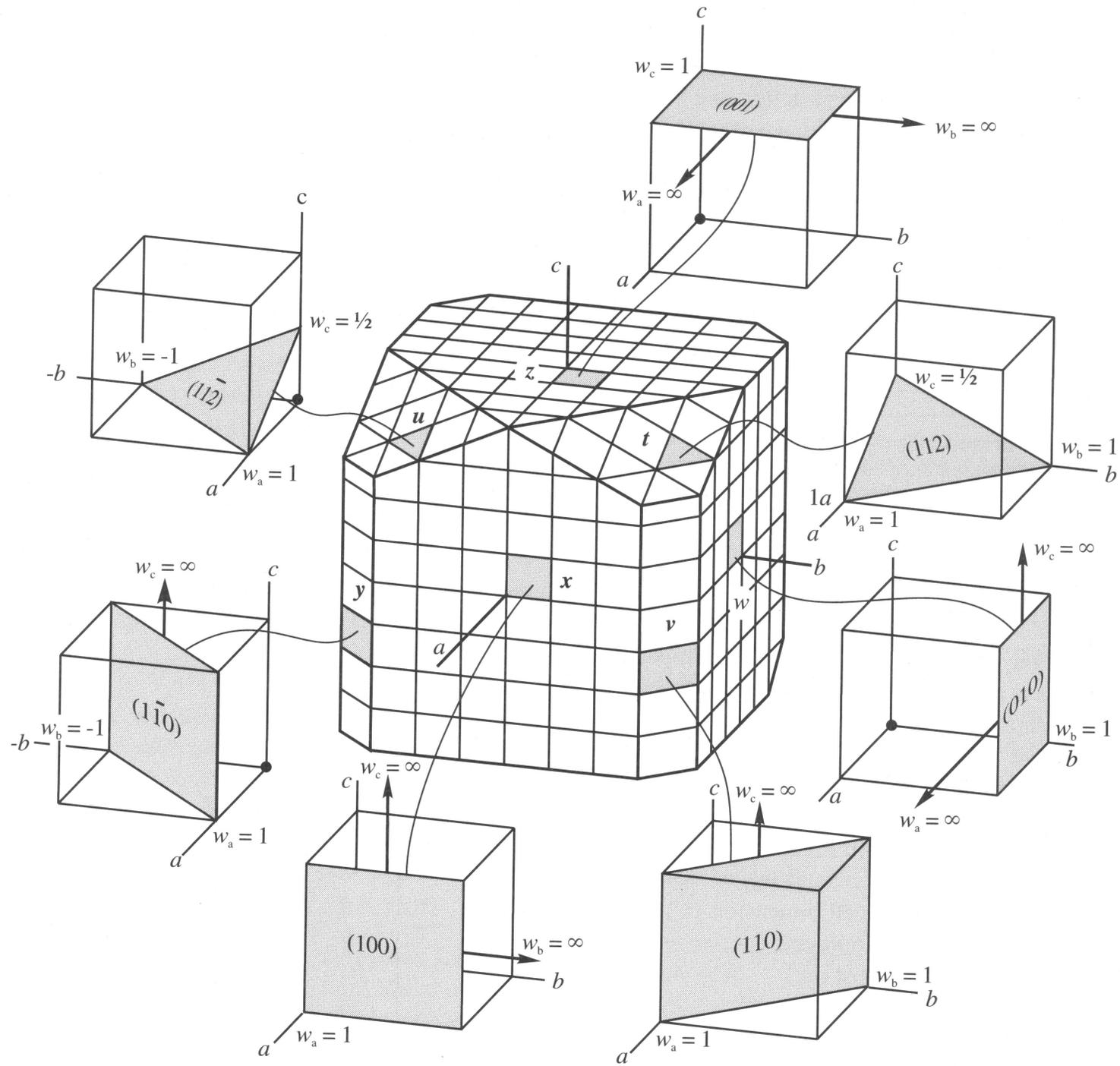
(111)



( $\bar{1}11$ )

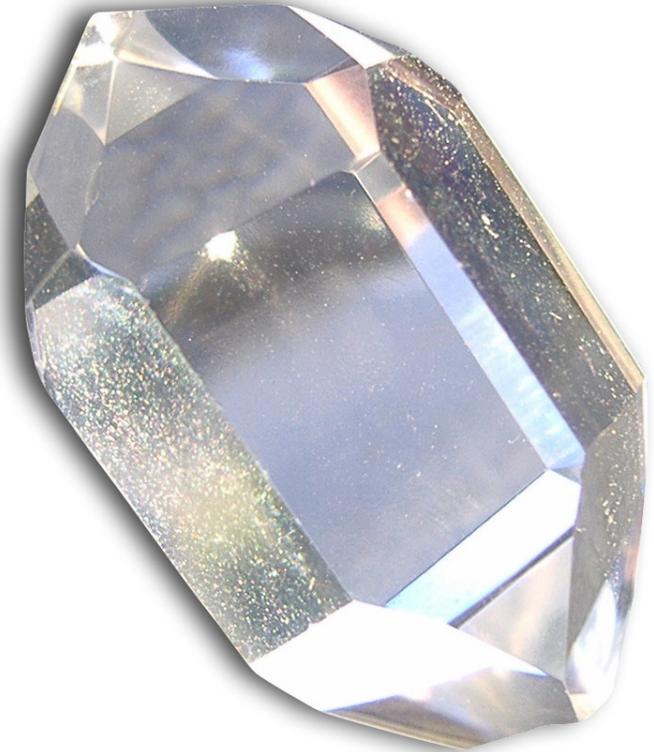


( $\bar{1}\bar{1}1$ )



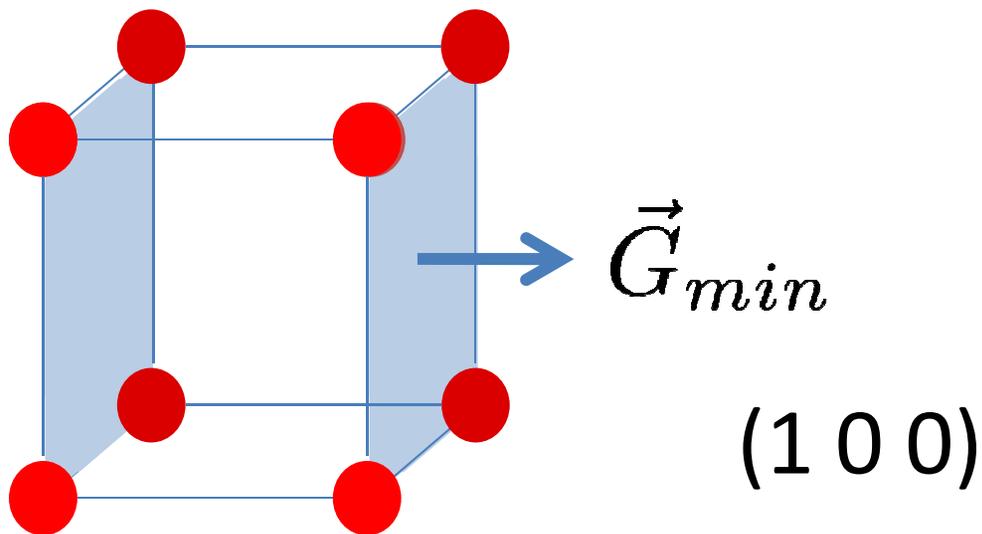


NaCl (FCC with basis)

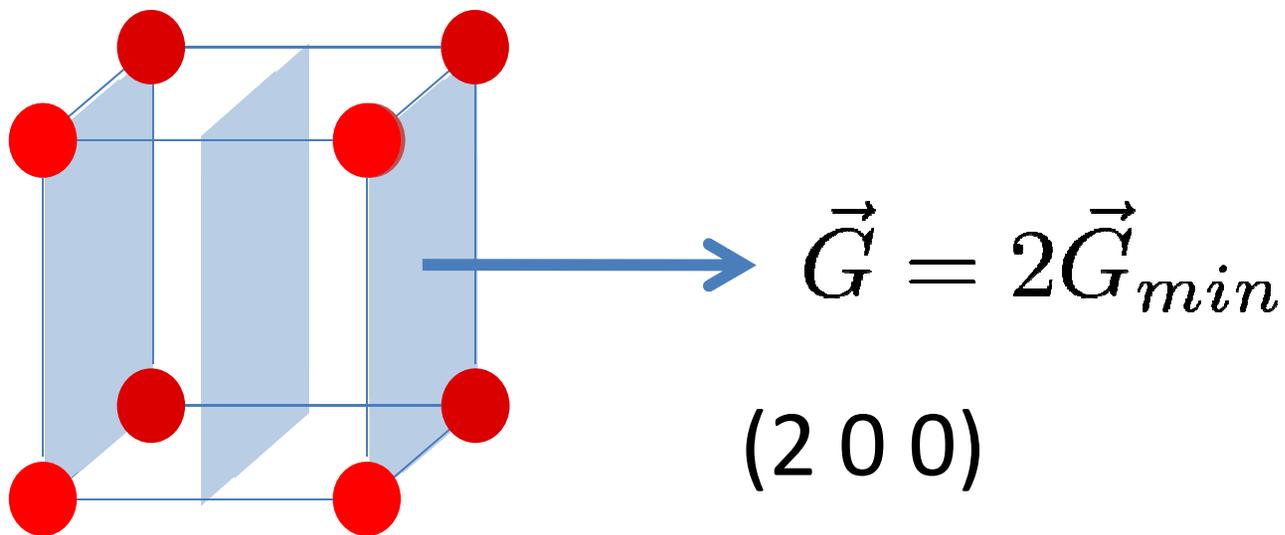


Quartz (Trigonal  $\text{SiO}_2$ )

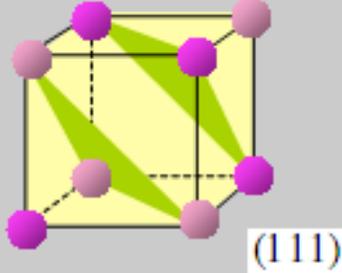
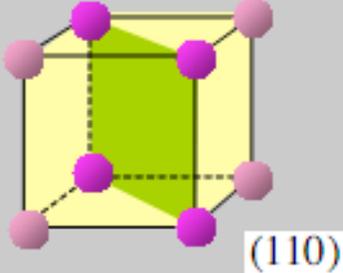
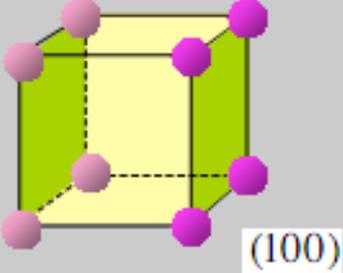
$$d = \frac{2\pi}{|\vec{G}_{min}|}$$



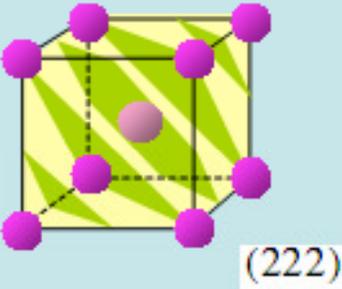
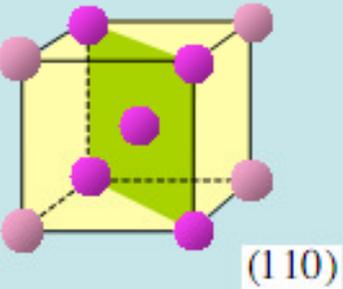
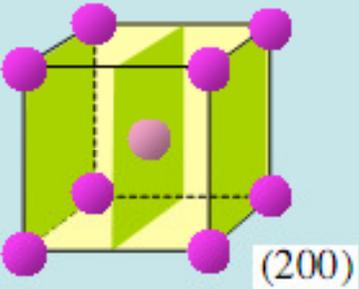
$$d = \frac{2\pi}{2|\vec{G}_{min}|}$$



SC



bcc



fcc

