Homework Question 1 about the rank 6 point groups to converge to 2 multiplication tables shall be due this week end. Send in your report in doc or pdf forms by email to liuu@chem.sinica.edu.tw.

Take home studies for write-up reports, submit in doc or pdf files.

1. Please find natural or man-made objects in *T* (tetrahedral), *O* (octahedral), and *I* (icosahedral) point groups. This is an open-end question.
2. We noticed the interactions of  acceptor to metal ion and donor ligand to metal ion from the ligand field theory (C3.ppt, page 17). Please find real compounds as suitable examples from the literature and check for the reported o values to see if the take home message is correct.
3. X-ray crystallography is different from electron crystallography. Do your own study to compose a report on the above two terms, about the theoretical backgrounds and experimental achievements, and also the contributions to materials advancement.