1.13: Bravais class

An arithmetic crystal class with matrix group of lattices is called a *Bravais arithmetic crystal class*, or **Bravais class** for short.

Each lattice is associated with a Bravais class, and each matrix group of a Bravais class represents the point group of a lattice referred to an appropriate primitive basis.

There exist 5 Bravais classes in two dimensions:

- $2p$
- $2mmp$
- $2mmc$
- $4mmp$
- $6mmh$

There exist 14 Bravais classes in three dimensions:

- $\bar{1}P$
- $2/mP$
- $2/mS$
- $mmmP$
- $mmmS$
- $mmmI$
- $mmmF$
- $4/mmmP$
- $4/mmmI$
- $\bar{3}mR$
- $6/mmmP$
- $m\bar{3}mP$
- $m\bar{3}mI$
- $m\bar{3}mF$