

## 1.94: Space group

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The symmetry group of a three-dimensional crystal pattern is called its **space group**. In  $E^2$ , the symmetry group of a two-dimensional crystal pattern is called its **plane group**. In  $E^1$ , the symmetry group of a one-dimensional crystal pattern is called its **line group**.

To each crystal pattern belongs an infinite set of translations **T**, which are symmetry operations of that pattern. The set of all **T** forms a group known as the **translation subgroup** T of the space group G of the crystal pattern. T is an Abelian group.

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