JOURNAL OF APPLIED CRYSTALLOGRAPHY

Volume 55 (2022)

**Supporting information for article:**

# Tangible symmetry elements and space-group models to guide from molecular to solid-state composition

**Nico Graw and Dietmar Stalke**

## S1. Models of axes of rotation

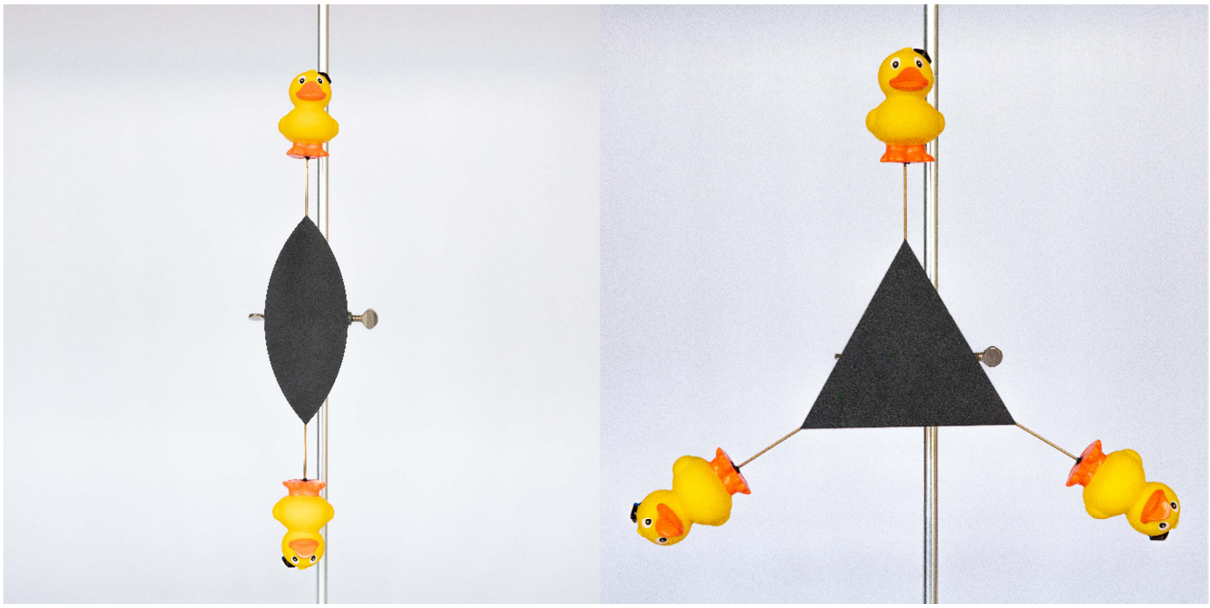

**Figure S1** Models of rotational axes. Left: two-fold rotational axis. Right: three-fold rotational axis.

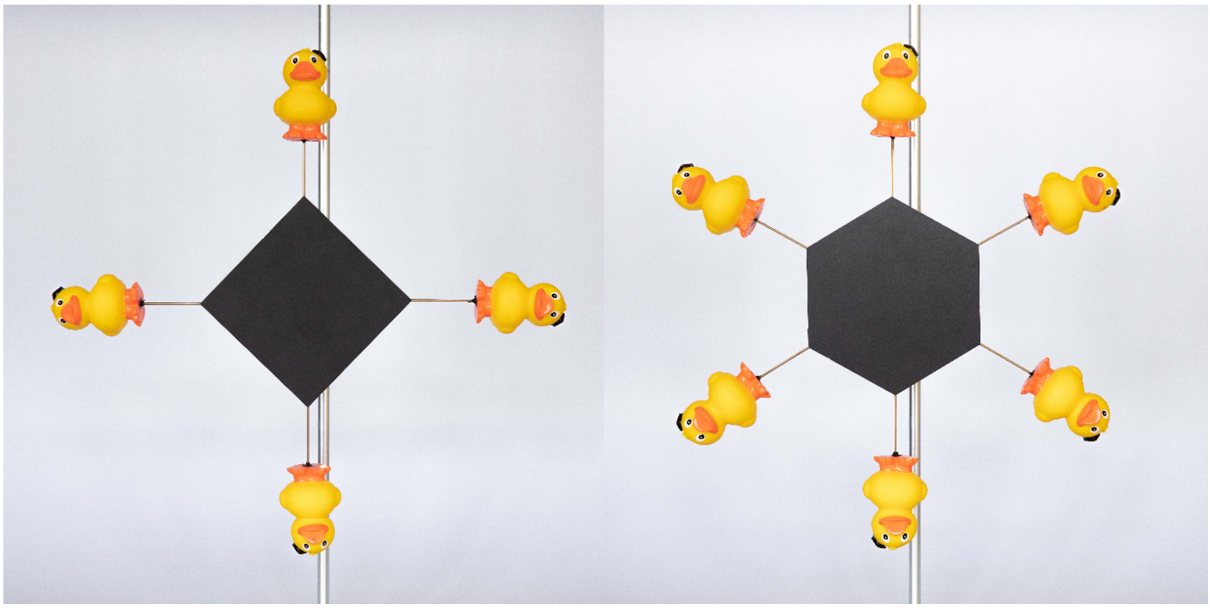

**Figure S2** Models of rotational axes. Left: four-fold rotational axis. Right: six-fold rotational axis.

**S2. Models of screw axes**

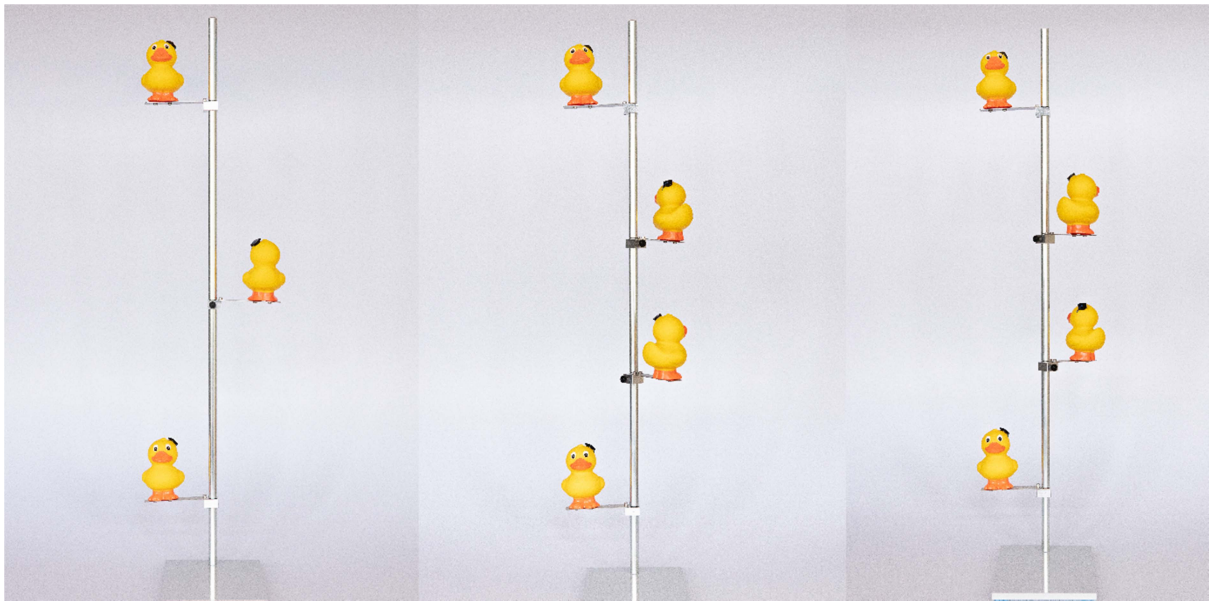

**Figure S3** Models of screw axes. Left: $2_1$ axis. Middle: $3_1$ axis. Right: $3_2$ axis.

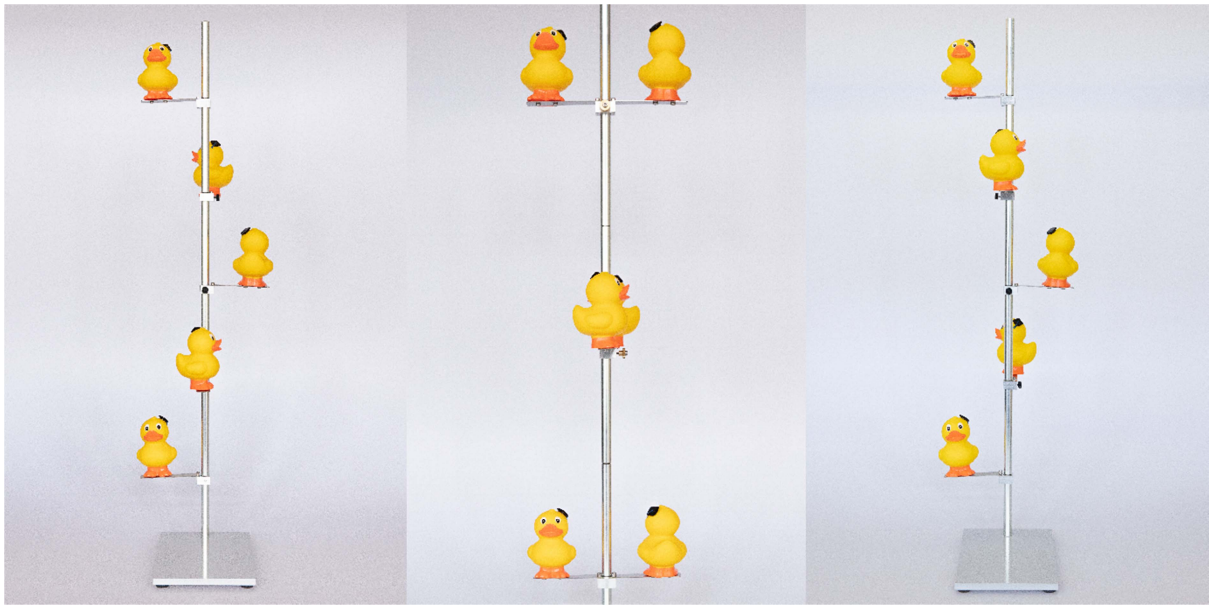

**Figure S4** Models of screw axes. Left: $4_1$ axis. Middle: $4_2$ axis. Right: $4_3$ axis.

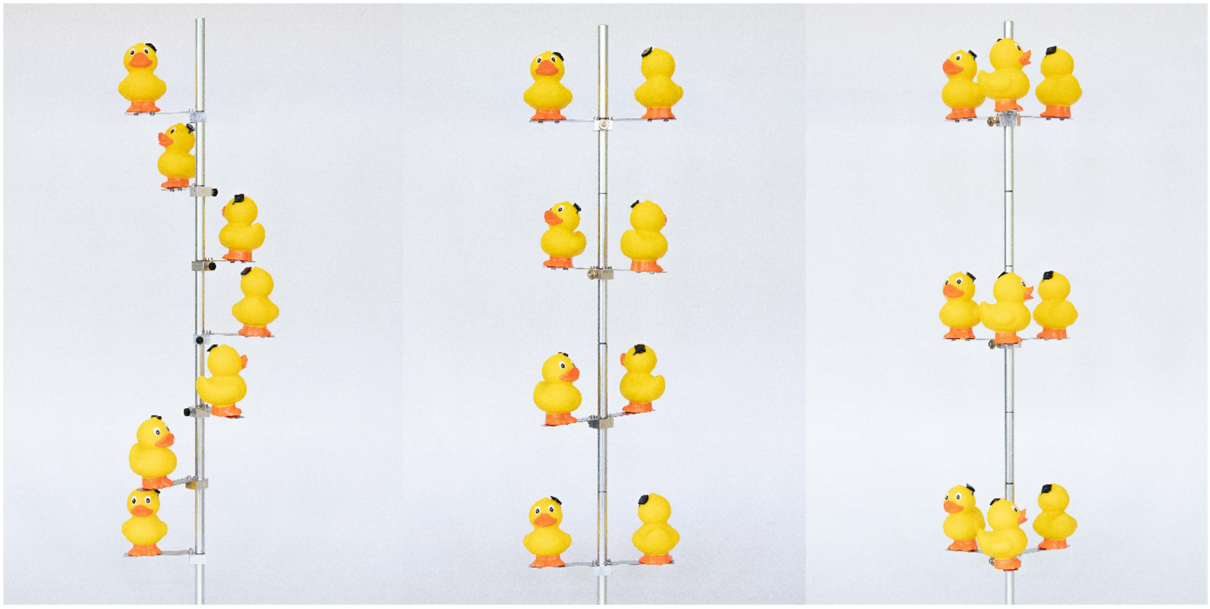

**Figure S5** Models of screw axes. Left: $6_1$ axis. Middle: $6_2$ axis. Right: $6_3$ axis.

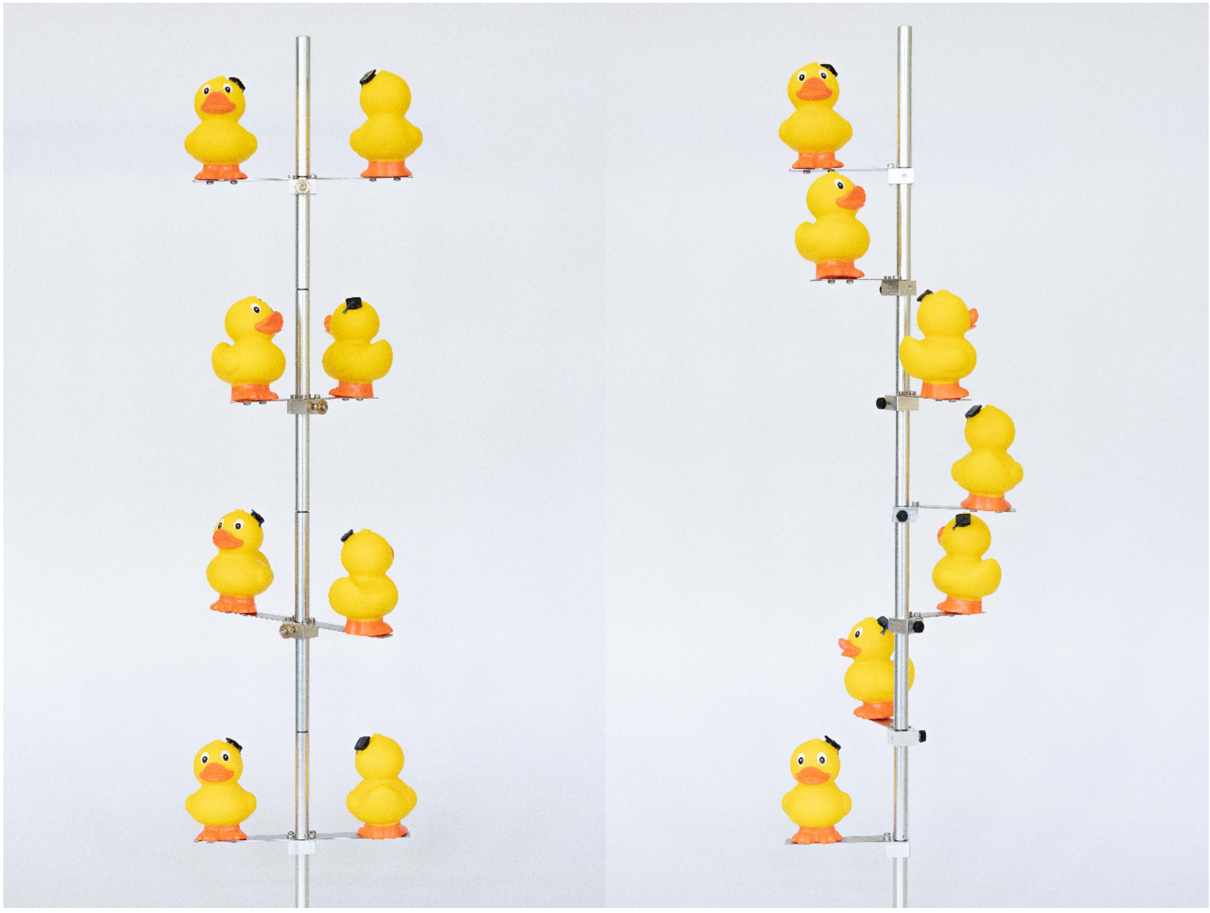

**Figure S6** Models of screw axes. Left: $6_4$ axis. Right: $6_5$ axis.

**S3. Models of space groups $P2_1$ and $P2_1/c$**

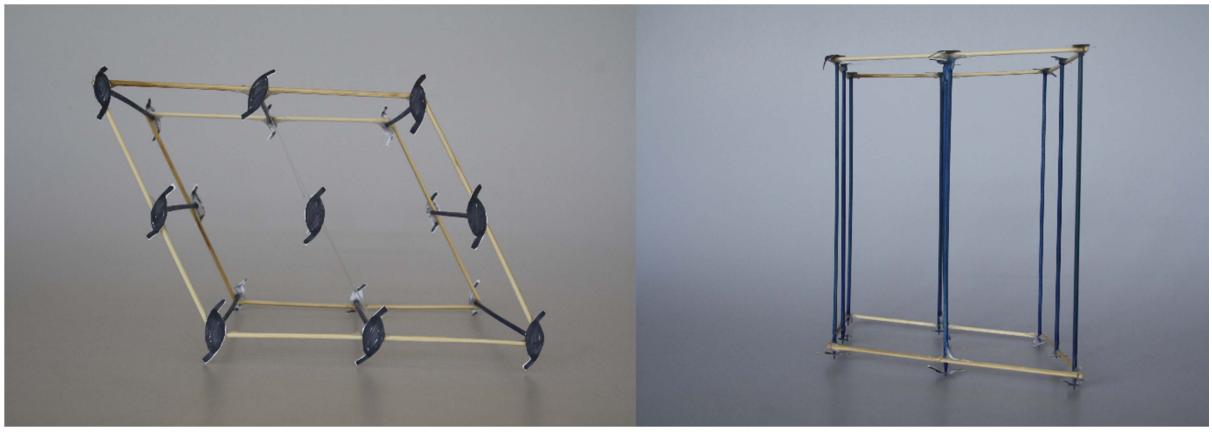

**Figure S7** Prototype model of space group $P2_1$ made from scrap material. Left: View along crystallographic b direction. Right: View along crystallographic a direction.

**Figure S8** Small scale model of space group $P2_1$.

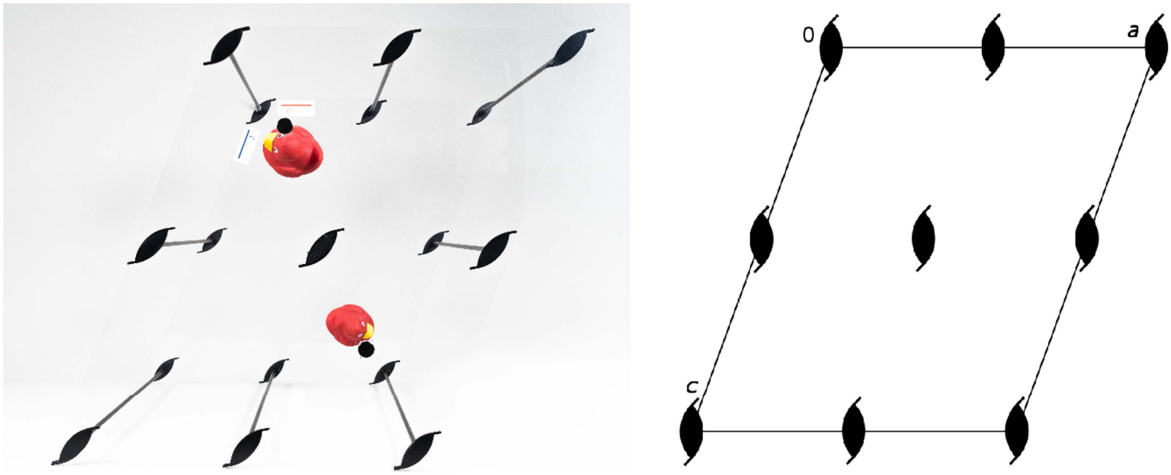


**Figure S9** Left: Model of space group $P2_1$. View along crystallographic b direction. Right: Schematic depiction of space group $P2_1$. View along crystallographic b direction.

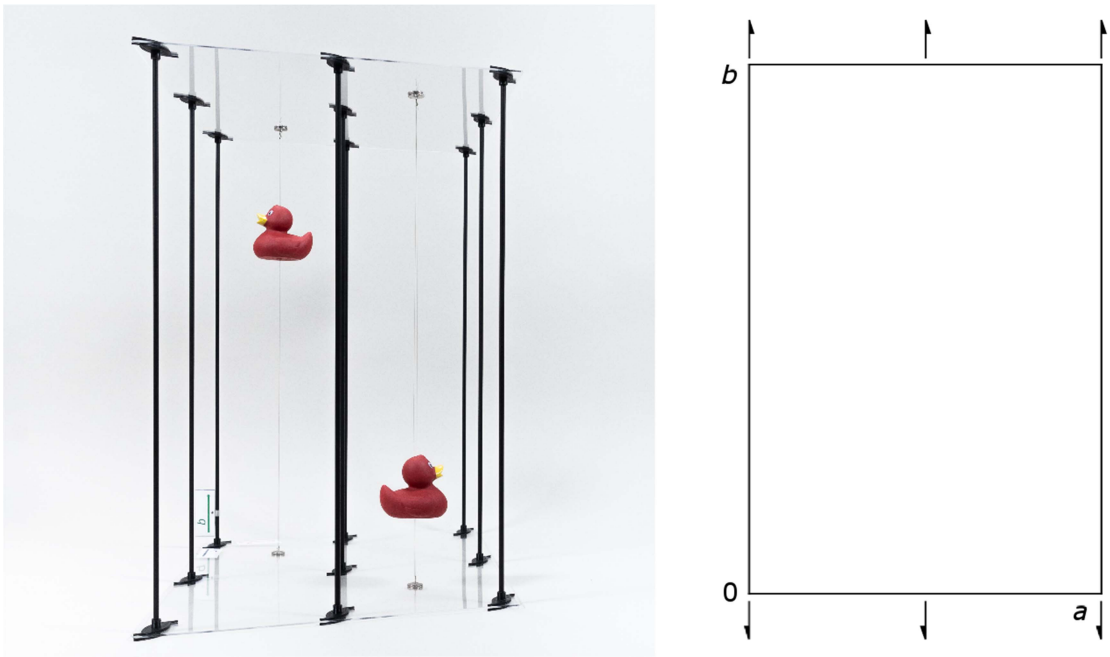


**Figure S10** Left: Model of space group $P2_1$. View along crystallographic c direction. Right: Schematic depiction of space group $P2_1$. View along crystallographic c direction.

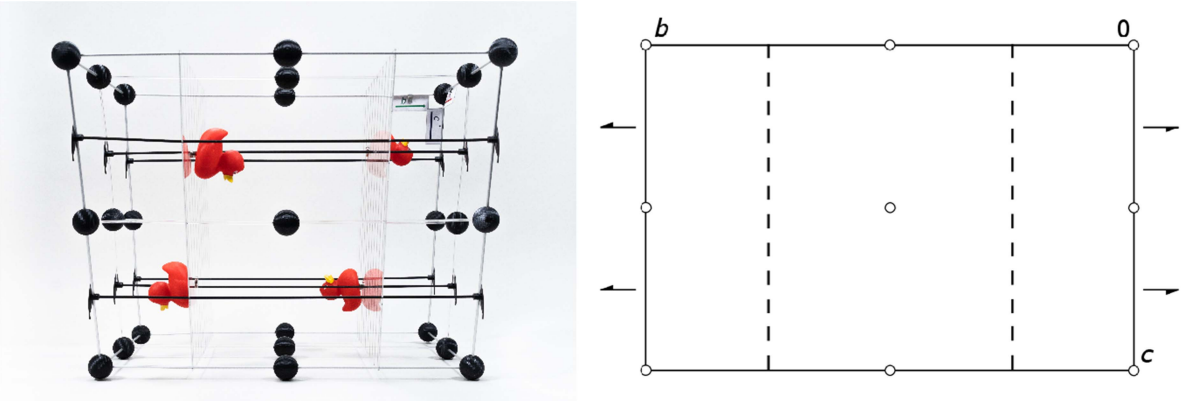


**Figure S11** Left: Model of space group $P2_1/c$. View along crystallographic a direction. Right: Schematic depiction of space group $P2_1/c$. View along crystallographic a direction.

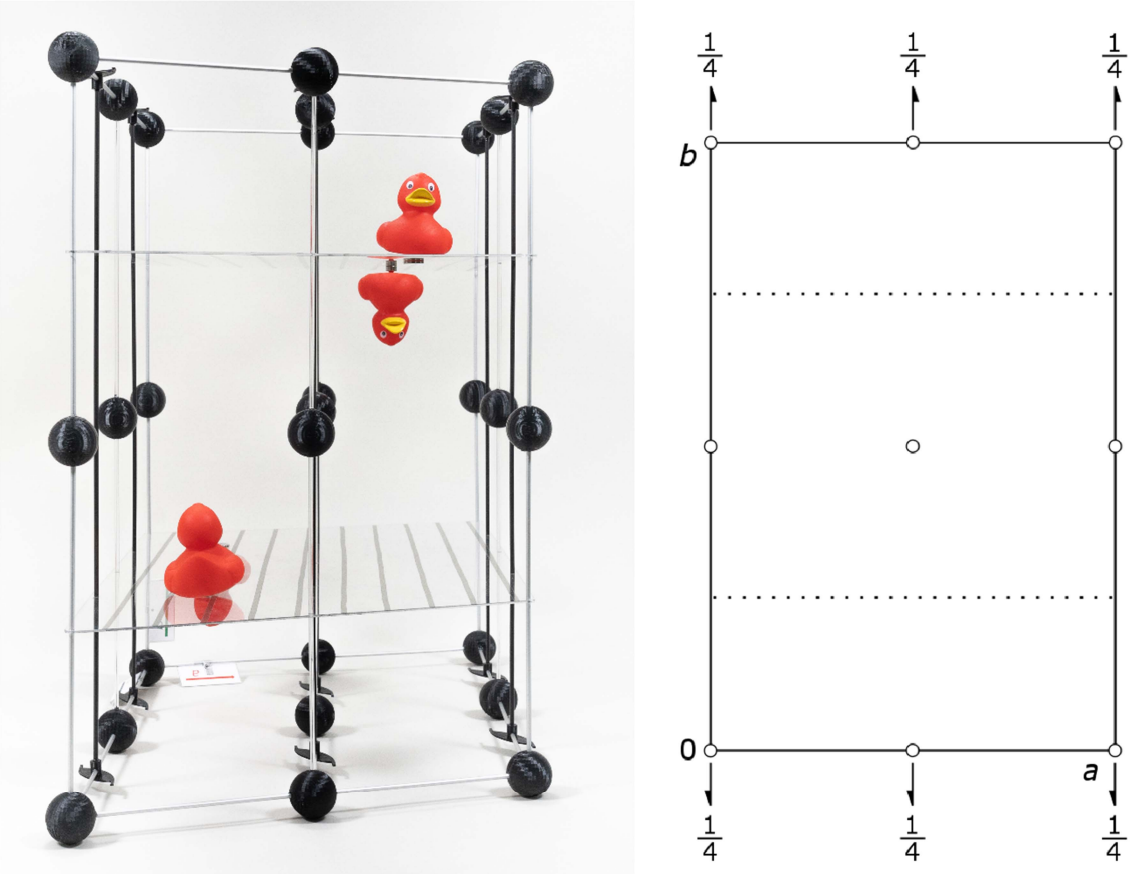


**Figure S12** Left: Model of space group $P2_1/c$. View along crystallographic c direction. Right: Schematic depiction of space group $P2_1/c$. View along crystallographic c direction.