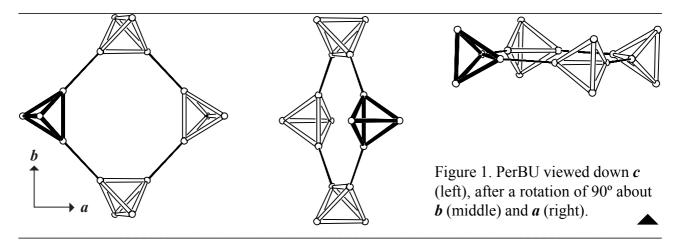
Building scheme for RWY



1. Periodic Building Unit – 2. Connection mode – 3. Projections of the unit cell content 4. Channels and/or cages – 5. Supplementary information

1. Periodic Building Unit:

Cubic **RWY** can be built using units of 4 T atoms: four fused 3-rings connected to a tetrahedron of T atoms (a 3*1 unit). The Periodic Building Unit (PerBU), periodic in zero dimensions, is obtained when T4-units (one bold in Figure 1) are linked about a 4-fold axis as shown in Figure 1.



2. Connection mode:

Neighboring PerBUs, related by a rotation of 90° about a, and b (or by the cubic 3-told axis) are connected along through single T-T connections as illustrated in Figure 2.

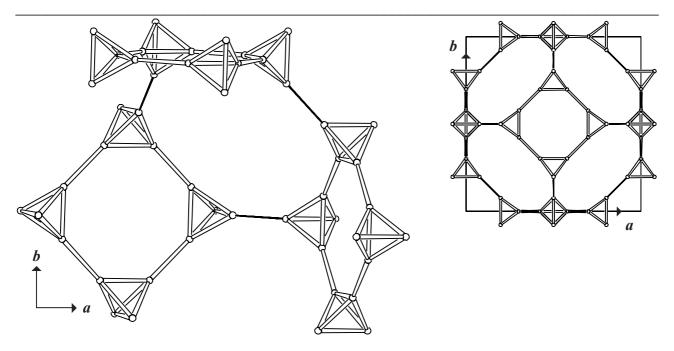


Figure 2. Connection mode viewed along c (left) and unit cell content viewed along c (right). In the perspective drawing only one set of 3-fold related PerBUs is shown for clarity.

3. Projections of the unit cell content: See Figure 2.

4. Channels and/or cages:

The cavity in **RWY** is depicted in Figure 3. The **pore descriptor** is added. Fused cavities are shown in figure 4. 8-Ring and 12-ring channels are formed.

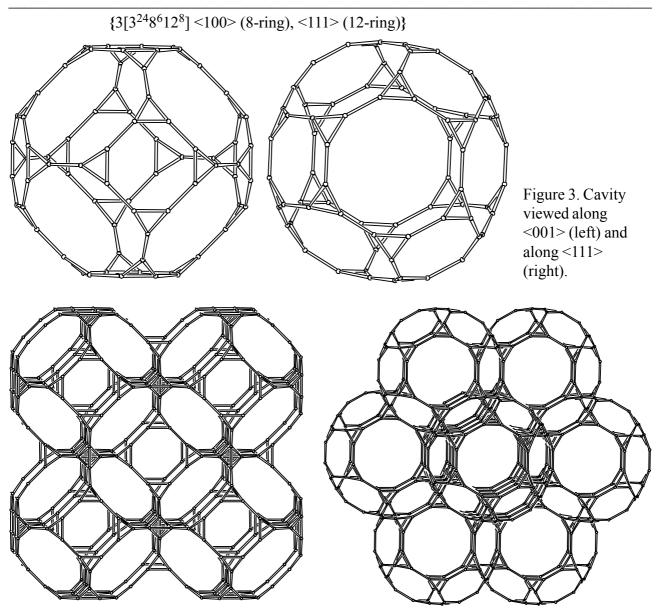


Figure 4. Fused cavities viewed along <001> (left) and along <111> (right).

5. Supplementary information:

Other framework types containing (modified) single 3- and/or 4-rings

Single 3- and/or 4-rings can be connected in several other ways. In several cases additional T atoms are needed to build the framework.

In the **INTRO**-pages links are given to a detailed description of a sub-set of framework types that contain (modified) single 3- and/or 4-rings (choose: **Single 3- and/or 4-rings**). There is also a link to a summary of the Periodic Building Units used in the building schemes of these framework types (choose: **Appendix**; **Figure 4**).