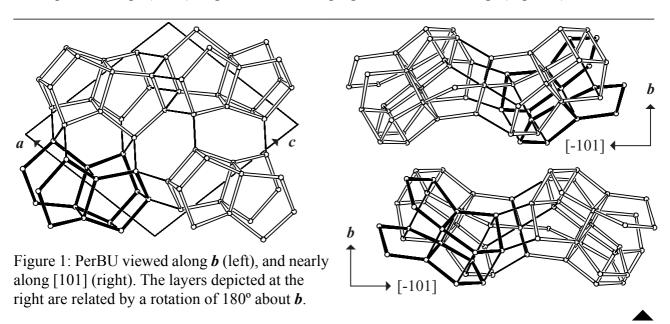


1. Periodic Building Unit – 2. Connection mode – 3. Projections of the unit cell content 4. Channels and/or cages – 5. Supplementary information

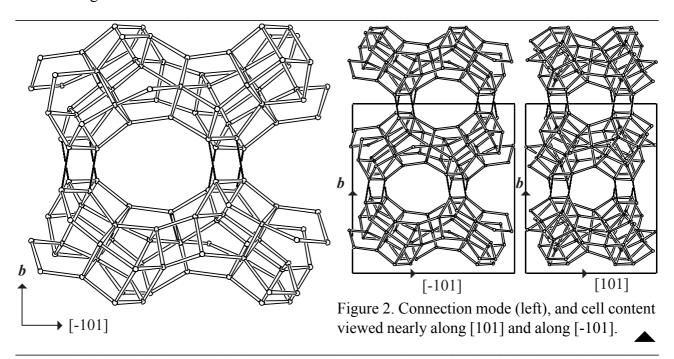
1. Periodic Building Unit:

The Periodic Building Unit (PerBU) in monoclinic **STT** is composed of units of 16 T atoms and equals the *ac* layer shown in Figure 1. The T16-unit consists of two 5-3 units (bold in Figure 1). Two "nearest neighbor" T16-units are related by inversion centers midway between the two units; the two "next-nearest" T16-units are related by pure translations along *a*, and *c*. The T16-units are linked in the *ac* plane through (finite) single- and double zigzag chains, 4- and 6-rings (Figure 1).



2. Connection mode:

Neighboring PerBUs, related by a rotation of 180° about \boldsymbol{b} , are connected along \boldsymbol{b} through 4-rings as shown in Figure 2.



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

4. Channels and/or cages:

The cavity that describes the intersection between the 7-ring channel parallel to [-101] and the 9-ring channel parallel to [101] is depicted in Figure 3. The **pore descriptor** is added. The fusion of the cavities is illustrated in Figure 4.

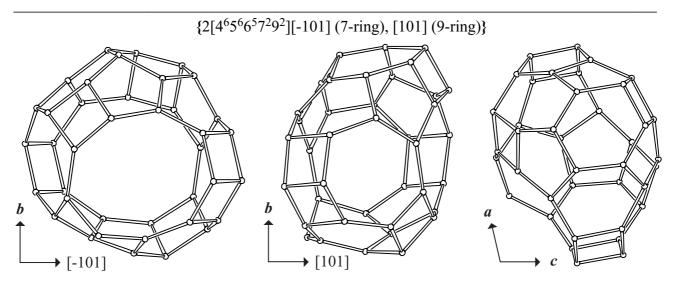
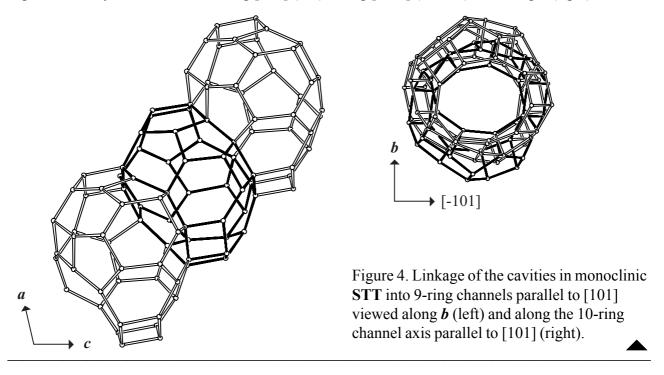


Figure 3. Cavity in **STT** viewed along [101] (left), along [-101] (middle) and along **b** (right).



5. Supplementary information:

Other framework types containing (modified) 5-rings

5-Rings can be connected in several other ways. In all 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) 5-rings (choose: **5-Rings**). There is also a link provided to a summary of the PerBUs used in the building schemes of these framework types (choose: **Appendix**; **Figure 6**).