

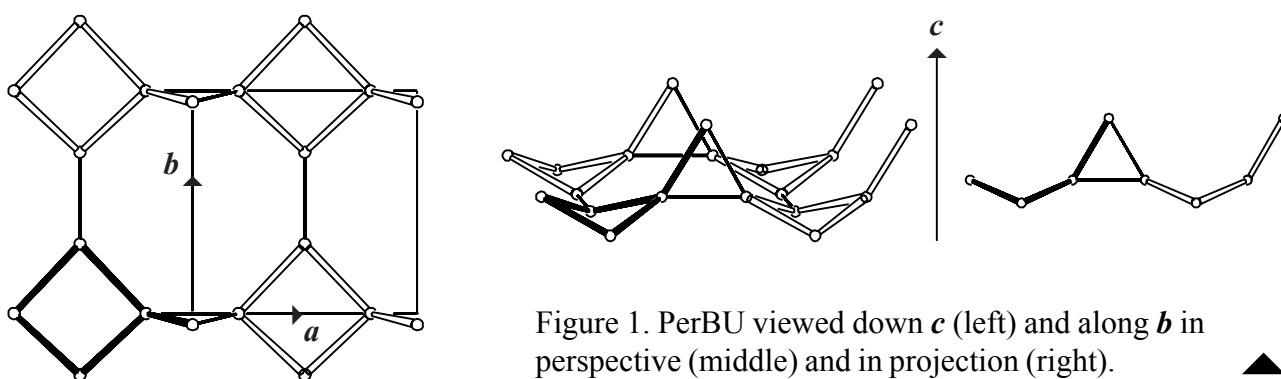
Building scheme for NAB



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

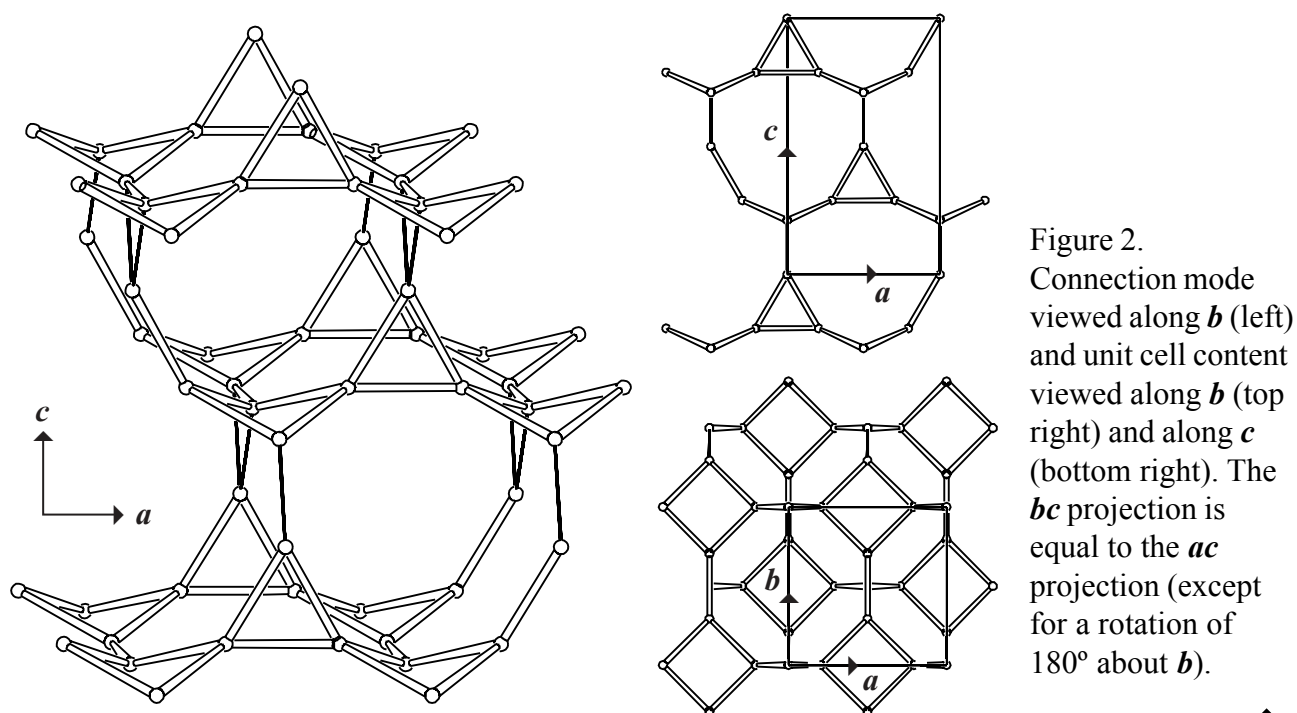
1. Periodic Building Unit:

NAB can be built using units of 5 T atoms: a 4-ring connected to a single T atom or a 3-ring connected to two single T atoms. The 4-1 unit will be used in this description. The Periodic Building Unit (PerBU) is composed of these T5-units (one bold in Figure 1) related by pure translations along a , and b and equals the layer depicted in Figure 1.



2. Connection mode:

Neighboring PerBUs, related by a rotation of 180° about c , and a shift of $1/2(a + b)$ are connected along c through 3-rings as illustrated in Figure 2.



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

4. Channels and/or cages:

The intersecting cavity of 9-ring channels in **NAB** is depicted in Figure 3 together with the fusion of cavities. The **pore descriptor** is added. The channel intersection is topologically equivalent to the intersection in **LOV**, **RSN** and **VSV**.

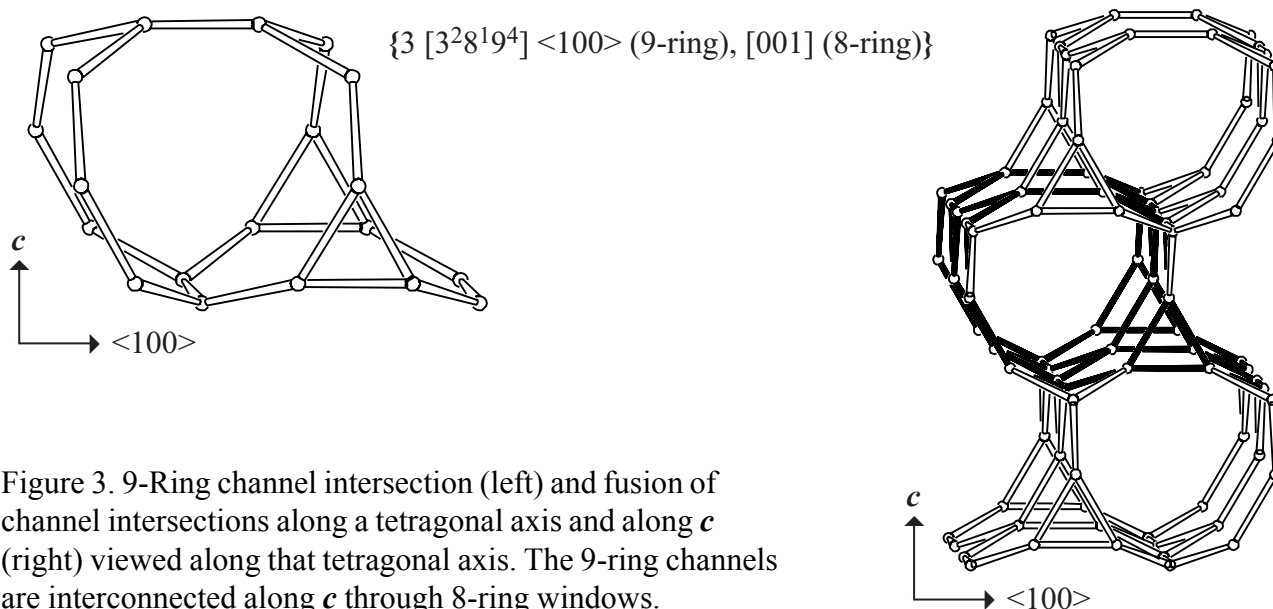


Figure 3. 9-Ring channel intersection (left) and fusion of channel intersections along a tetragonal axis and along *c* (right) viewed along that tetragonal axis. The 9-ring channels are interconnected along *c* through 8-ring windows. ▲

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**). ▲