

Citation:

Rahm, Alexander D. (2016). *Cell complexes database for the Bianchi groups*.

Abstract:

**Cell complexes database for the Bianchi groups**

This is a database of quotients by Bianchi groups of two-dimensional cellular equivariant retracts of Hyperbolic three-space. The Bianchi groups  $SL(2, A)$ , with  $A$  the ring of integers in the imaginary quadratic number field obtained by adjoining the squareroot of minus a square-free rational integer  $m > 0$  to the rational numbers, are distinguished by their discriminant, or equivalently by the integer  $m$ . These quotient cell complexes have been computed with my program `Bianchi.gp`, and are provided as archive files with an included `readme.txt` file containing instructions on how to make use of them.

Available at:

<http://data.library.nuigalway.ie/10379/5817/>