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Abstracts of Short Communications and Posters

Section:

6. Topology

1991 MS Classification: 57, 22
Vesnin, Andrei, Institute of Mathematics, Novosibisk, Russia
On 3-manifolds with cyclic symmetry
We discuss covering properties of manifolds uniformized by cyclically presented groups. Closed orientable three-dimensioanl manifolds $M_n^{k/l}$ whose fundamental groups are Fractional Fibonacci groups

$$F^{k/l}(2,2n) =< x_1,\ldots,x_{2n} | x_i^l x_{i+1}^k = x_{i+2}^l, i=1,\ldots,2n >$$

are studied. Almost all of these manifolds are hyperbolic. Manifolds $M_n^{1/l}$ are n-fold cyclic coverings of the sphere, branched over two-bridge knots $K(2l+1/2l)$. Part of these results is joint work with A. Kim.
Reference: A. Vesnin, and A. Kim, Fractional Fibonacci groups and manifolds, *Siberian Math. J.* **39(4)** (1998).