1135-46-1927 **Igor Nikolaev*** (`igor.v.nikolaev@gmail.com`), 8000 Utopia Parkway, New York, NY 11439.
Remark on arithmetic topology.

We formalize the arithmetic topology, i.e. a relationship between knots and primes. Namely, using the notion of a cluster C*-algebra we construct a functor from the category of 3-dimensional manifolds M to a category of algebraic number fields K, such that the prime ideals (ideals, resp.) in the ring of integers of K correspond to knots (links, resp.) in M. It is proved that the functor realizes all axioms of the arithmetic topology conjectured in the 1960's by Manin, Mazur and Mumford. Reference: arXiv:1706.06398 (Received September 25, 2017)