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A p -periodic net is a pair (N, T) , where N is a net, $T \leq \text{Aut}(N)$ is a free abelian group of automorphisms of rank p such that the quotient graph $G = N/T$ is finite. p -Periodic nets are called crystallographic or non-crystallographic nets according as their automorphism group is respectively isomorphic or not, to some p -dimensional space-group.

An automorphism g of N is said to be bounded if the set of distances $\{d[g(u), u] | u \in V(N)\}$ is bounded in \mathbb{N} . Let $B(N)$ be the subgroup of bounded automorphisms of a periodic net N . A partition σ of $V(N)$ is a system of imprimitivity for $G \leq B(N)$ if $g(u)$ belongs to the same subset (block) of σ as u for every $g \in G$ and $u \in V(N)$.

A barycentric representation of a periodic net N in Euclidian space \mathbb{E} is a mapping ρ of the vertex set $V(N)$ in \mathbb{E} such that $r(u)\rho(u) = \sum_{v \sim u} \rho(v)$, where $r(u)$ is the degree of vertex u and the sum is performed over the set of adjacent vertices v of u . We will show that periodic, barycentric representations of non-crystallographic nets with a non-trivial, periodic system of imprimitivity display vertex collisions, every block being represented as a single point. (Received December 05, 2011)