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Rainbow caterpillars in elementary p-groups

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Given a finite Abelian group $(A, +)$, consider a tree T with $|A|$ vertices. The labelling $f \colon V(T) \to A$ of the vertices of some graph G induces an edge labelling in G, thus the edge uv receives the label $f(u) + f(v)$. The tree T is A-rainbow colored if f is a bijection and edges have different colors. In this paper, we give necessary and sufficient conditions for a caterpillar with three spine vertices to be A-rainbow, when A is an elementary p-group.