

1135-VP-2691 **Taylor McMillan*** (mcmi9872@bears.unco.edu), 825 12th St Apt 5, Greeley, CO 80631, and
Oscar Levin. *On Locally Harmonious Labelings.* Preliminary report.

A *harmonious labeling* of a graph G with v vertices is an injective function from the vertices to $\{0, 1, \dots, v - 1\}$ such that the labels on the edges, induced by taking the sum of the incident vertices, are distinct. The natural extension of this type of labeling to infinite graphs is too restrictive. We consider a variant on harmonious labelings that maintains the harmonious property, but at a local level. In this talk, we define a *locally harmonious labeling*, and investigate this labeling for both finite and infinite graphs.

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