

1154-05-2100      **Michael Young\***, 411 Morrill Rd, Ames, IA 50011. *Rainbow Problems in Groups*.

A set is considered rainbow if each element of the set is assigned a distinct color. In this talk, we will discuss problems and techniques about determining the minimum number of colors needed in order to guarantee that every coloring of the integers contains a rainbow solution to a given equation. Open problems that are accessible to any undergraduate that has completed an introductory proof course will also be presented. (Received September 17, 2019)