Combinatorics
Seminar

List colorings of infinite graphs

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Abstract: After a short reminder of things like alephs and well ordering, we consider the notions of coloring number and list-chromatic number for infinite graphs and compare them with the chromatic number and each other, and calculate the list chromatic number for some complete bipartite graphs. We state some theorems essentially saying that, for uncountable graphs, the list chromatic number can be equal to the coloring number, to the chromatic number, but not both.

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Mathematics and Science Center: W306

Mathematics and Computer Science
Emory University