## Cubic graphs, edge-colorings and 5 colors

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We will focus on edge-colorings of cubic graphs which we can realize using just fi ve colors. We will begin with a recent result on the strong edge-coloring, continuing by introducing related results and a number of open problems on this topic. The main message of the talk is that one additional color transforms a (just) proper edge-coloring into various proper edge-colorings with essentially different properties.

