

1117-57-201 **Pedro Lopes*** (pelopes@math.tecnico.ulisboa.pt), Department of Mathematics, IST -
University of Lisbon, Av. Rovisco Pais, 1049-001 Lisbon, Portugal. *Generalized palette
graphs*. Preliminary report.

The palette graph was introduced by Nakamura, Nakanishi and Satoh in the context of Fox colorings. A palette graph takes a set of colors as vertices of a graph, and an edge connecting two colors stands for the coloring condition being satisfied. Considerations on palette graphs and associated matrices leads to a lower bound for the minimum number of colors. In this talk we report on generalizing these notions to colorings by other linear Alexander quandles. This is joint work with Louis H. Kauffman. (Received January 13, 2016)