

**34º Colóquio Brasileiro de Matemática (CBM)
IMPA, Rio de Janeiro, 23 a 28 de Julho, 2023**

Kisnney Emiliano de Almeida (UEFS)

Título: Subgroup separability of Artin groups.

Resumo: In this talk, we will discuss two equivalent conditions on the underlying graph of an Artin group that fully determine if it is subgroup separable. These conditions generalize the Metaftsis-Raptis criterion for Right-Angled Artin groups, and we will explore some consequences of them. Specifically, we will conclude that an Artin group is subgroup separable if and only if it can be obtained from Artin groups of ranks at most 2 via a finite sequence of free products and direct products with the infinite cyclic group. This is joint work with I. Lima.