

# First Joint Meeting Brazil Italy of Mathematics

## Special Session: Group Theory

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**Title:** Test elements in pro- $p$  groups

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**Abstract:** Let  $G$  be a group. An element  $g \in G$  is called a test element of  $G$  if for every endomorphism  $\phi : G \rightarrow G$ ,  $\phi(g) = g$  implies that  $\phi$  is an automorphism. I will discuss test elements in pro- $p$  groups and applications to discrete groups.

This is joint work with Ilir Snopce.