

First Joint Meeting Brazil Italy of Mathematics
Special Session, S6: Commutative Algebra and its
Interactions

Rio de Janeiro, August 29 - September 02, 2016

Title: Residual intersections

Authors: Marc Chardin, José Naéliton, Quang Tran Hoa

Abstract: I will present recent advances on Cohen-Macaulayness of residual intersection. These in particular show that hypotheses on the local number of generators are not needed and that the canonical module of the residual can be described in most situations (for instance over a Gorenstein ring). It relies on the direct approach of Hassanzadeh, that was later extended and completed in his joint work with Naéliton.