

# Commutative Ring Theory Days 2010

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## **CHARACTERIZATIONS OF ONE DIMENSIONAL ANALYTICALLY UNRAMIFIED RINGS NOT NECESSARILY RESIDUALLY RATIONAL**

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Research on one-dimensional local CM rings was originally motivated by questions regarding algebraic curves and their singularities. For this reason often certain additional properties - like residual rationality - were assumed.

From a geometrical point of view, residual rationality is indeed a natural assumption. However, with a more algebraic interest, it seems desirable to remove all additional assumptions and investigate the relevant properties as general as possible. In my talk I will outline a characterization of one-dimensional local CM rings of maximal and minimal length (without assuming residual rationality).

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