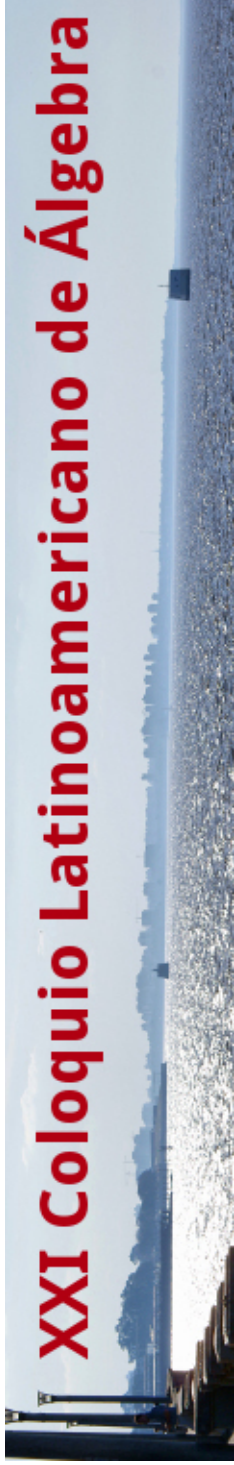


XXI Coloquio Latinoamericano de Álgebra



This is to certify that

Carlos Valencia Oleta

Mathematics department, Cinvestav-IPN

dictated the talk “Counting arithmetical structures of a graph and their sandpile groups.” at the XXI Coloquio Latinoamericano de Álgebra that took place in Buenos Aires, Argentina, from July 25 to 29, 2016.

Prof. Teresa Krick
XXICLA Organizing Committee