

1163-14-1315

James Phillips* (james.phillips@wellesley.edu). *Deformations of wildly ramified one-point covers.*

Abhyankar's Conjecture gives explicit conditions for the existence of a G -cover of a given curve in characteristic p with a given number of branch points. It does not, however, give a description of the possible ramification groups above the branch points. In this talk, I will generalize techniques used by Pries to study the conductors of one-point covers of \mathbb{P}^1 when G has a cyclic Sylow p -subgroup. These techniques involve the study of deformations of covers over equicharacteristic discretely valued rings. (Received September 15, 2020)