

Local Moufang sets living inside Serre's tree for \mathbf{SL}_2

Erik Rijcken

Local Moufang sets were introduced as a generalization of Moufang sets, in order to encompass some groups defined over local rings or algebras. In this talk, I will give the definition of a local Moufang set, and give an example where they can be found in Serre's tree. In order to do this, I give an alternative way to define Serre's tree for \mathbf{SL}_2 over a field with discrete valuation, and then show where the local Moufang sets can be found.