1118-51-210 **Federica Fanoni*** (federica.fanoni@gmail.com). *Filling sets of curves and systoles.*

A set of curves on a surface is filling if there is no simple closed curve disjoint from the set, or equivalently if it cuts the surface into a union of disks with at most one puncture.

I will talk about bounding the size of filling sets of curves with restrictions on the number of intersections and discuss what happens if we endow the surface with a hyperbolic metric and we require the curves to be systoles. Joint work with Hugo Parlier. (Received February 01, 2016)