Oberseminar Geometrie	THURSDAY 2nd May 2013
Department of Mathematics	14:00-15:40
University of Fribourg	Seminar room 0.102, Mathematics building

[Please note that the time and venue are different from the usual ones.]

SARA MALONI (Paris-Sud 11, Orsay)

'Gluing constructions and slices of Quasifuchsian space.'

Given a surface Σ , Kra's plumbing construction endows Σ with a projective structure for which the associated holonomy representation ρ depends on the 'plumbing parameters' $\mu_i \in \mathbb{C}$. This construction gives elements of the Maskit slice, a well-known slice of the boundary of the Quasifuchsian space $\mathcal{QF}(\Sigma)$.

In the first part of the talk we will review the notion of Kleinian groups, of Dehn-Thurston coordinates for simple closed curves, of complex projective structures, of pleated surfaces and of Maskit slices. In the second part we will describe the plumbing construction and a more general plumbing construction, called the \underline{c} -plumbing construction, which builds elements in a particular slice of the Quasifuchsian space $\mathcal{QF}(\Sigma)$. Time permitting, we will describe some properties of these slices and we will show some pictures.