1127-11-333   **Lue Pan***, Fine Hall, Washington Road, Princeton, NJ 08540. *First covering of Drinfel'd upper half plane and Banach representations of* $\mathrm{GL}_2(\mathbb{Q}_p)$.

We construct some admissible Banach representations of $\mathrm{GL}_2(\mathbb{Q}_p)$ that conjecturally should correspond to some 2-dimensional tamely ramified, potentially Barsotti-Tate representations of $G_{\mathbb{Q}_p}$ via the p-adic local Langlands correspondence. To achieve this, we generalize Breuil's work in the semi-stable case and work on the first covering of Drinfel'd upper half plane. (Received February 06, 2017)