1160-11-102 **Chien-Hua Chen*** (cxc813@psu.edu), 1400 Martin St. Apt.1051, State College, PA 16803.

Surjectivity of the adelic Galois representation associated to a Drinfeld Module of prime rank.

In this talk, we show under certain condition that the adelic Galois representation

$$\rho_\phi : \mathrm{Gal}(\mathbb{F}_q(T)^{\mathrm{sep}}/\mathbb{F}_q(T)) \longrightarrow \varprojlim_{\mathfrak{a}} \mathrm{Aut}(\phi[\mathfrak{a}]) \cong \mathrm{GL}_{\mathrm{r}}(\widehat{A})$$

associated to the Drinfeld module ϕ over $\mathbb{F}_q(T)$ of prime rank r, where ϕ is defined by $\phi_T = T + \tau^{r-1} + T^{q-1}\tau^r$, is surjective. (Received August 07, 2020)