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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

$$\rho_\phi : \text{Gal}(\mathbb{F}_q(T)^\text{sep}/\mathbb{F}_q(T)) \rightarrow \varprojlim_a \text{Aut}(\phi[a]) \cong \text{GL}_r(\widehat{\mathbb{A}})$$

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