

## Atkin-Lehner theory for Drinfeld Modular forms

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Let  $S_k(N)$  be the space of cusp forms of level  $\Gamma_0(N)$  with  $N \in \mathbb{Z}$ . Atkin-Lehner theory deals with the notion of oldforms, namely those coming from a lower level  $M|N$ , and newforms, i.e. the orthogonal complement of the space of oldforms with respect to the Petersson inner product. Moreover, it is also concerned with the construction of a basis for  $S_k(N)$  made up by eigenfunctions for the Hecke operators  $\mathbf{T}_n$  with  $n$  prime to  $N$ . In this talk we shall present some recent advances on the analogous theory for Drinfeld modular forms, which are certain analogues over the function field  $\mathbb{F}_q[T]$  of classical modular forms.