



Mathematics > Number Theory

From étale \mathbb{P}_{+} -representations to G -equivariant sheaves on G/P

Peter Schneider, Marie-France Vigneras, Gergely Zabradi

(Submitted on 6 Jun 2012)

Let K/\mathbb{Q}_p be a finite extension with ring of integers \mathcal{O} , let G be a connected reductive split \mathbb{Q}_p -group of Borel subgroup $P=TN$ and let α be a simple root of T in N . We associate to a finitely generated module D over the Fontaine ring over \mathcal{O} endowed with a semilinear étale action of the monoid T_{+} (acting on the Fontaine ring via α), a $G(\mathbb{Q}_p)$ -equivariant sheaf of \mathcal{O} -modules on the compact space $G(\mathbb{Q}_p)/P(\mathbb{Q}_p)$. Our construction generalizes the representation $D \boxtimes P^1$ of $GL(2, \mathbb{Q}_p)$ associated by Colmez to a (φ, Γ) -module D endowed with a character of \mathbb{Q}_p^* .

Subjects: **Number Theory (math.NT)**

MSC classes: 11F70, 20G25

Cite as: **arXiv:1206.1125 [math.NT]**

(or **arXiv:1206.1125v1 [math.NT]** for this version)

Submission history

From: Vigneras Marie-France [[view email](#)]

[v1] Wed, 6 Jun 2012 06:16:52 GMT (88kb)

Which authors of this paper are endorsers?

Link back to: [arXiv](#), [form interface](#), [contact](#).

Download:

- [PDF](#)
- [PostScript](#)
- [Other formats](#)

Current browse context:

math.NT

[< prev](#) | [next >](#)

[new](#) | [recent](#) | [1206](#)

Change to browse by:

[math](#)

References & Citations

- [NASA ADS](#)

Bookmark ([what is this?](#))

