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From étale P_{+}-representations to G-equivariant sheaves on G/P

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Let $K/\mathbb Q_{p}$ be a finite extension with ring of integers 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 o endowed with a semilinear \'etale action of the monoid T_{+} (acting on the Fontaine ring via α), a $G(\mathbb Q_{p})$-equivariant sheaf of o-modules on the compact space $G(\mathbb Q_{p})/P(\mathbb Q_{p})$. Our construction generalizes the representation $D\boxtimes \mathbb P^{1}$ of $GL(2,\mathbb Q_{p})$ associated by Colmez to a (φ,Γ)-module D endowed with a character of $\mathbb Q_{p}^{*}$.

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