

# On Geometric Construction of Artin Representation

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$A$  be a regular local ring whose residue field is of characteristic  $p$ . Let  $G$  be a finite group which acts on  $A$ . Under certain condition, Serre defined an integer-valued function on  $G$ , and conjectured that the function is the character of a  $\mathbb{Q}_l$ -rational representation of  $G$ . We discuss this conjecture in the equal characteristic situation.

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