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Iwahori-Hecke model for supersingular representations of $GL_2(\mathbb{Q}_p)$. (English summary)

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Summary: “In this paper, we realize a regular supersingular representation π of $GL_2(\mathbb{Q}_p)$ as a quotient of a representation induced from the Iwahori subgroup of $GL_2(\mathbb{Q}_p)$. We also show that this realization provides a uniform way of looking at all the self-extensions of π which have a four dimensional space of $I(1)$ -invariants.”

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