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An intertwining relation via Takeda-Wood isomorphism

Abstract : For p-adic local fields of characteristic not equal to 2, but with no constraint on p, Takeda and Wood obtained an isomorphism between the Iwahori-Hecke algebra of $SO(2n+1)$ and the Hecke algebra of $Mp(2n)$ for the Bernstein component containing the even Weil representation ; for the odd component one takes the non-split inner form of $SO(2n+1)$ instead. I will try to explain how their isomorphism behaves under parabolic induction, whose proof is not entirely trivial. Then I will sketch a Gindikin-Karpelevich formula for $Mp(2n)$ that applies to dyadic local fields as well. The motivation comes from Arthur's local intertwining relation for $Mp(2n)$, which becomes "wild" when $p = 2$. This is a joint work with Fei Chen.