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A Symbol from Beyond Endoscopy

To carry out the process of Beyond Endoscopy, as proposed by Langlands around 2000, for Gl(2) for general number fields it is necessary to be able to write the Hecke Sign Character in a very explicit form. For the rational numbers this is achieved via the Kronecker Symbol, but for other number fields it is not so straightforward how to do it in the way needed for Beyond Endoscopy.

In a joint work with Melissa Emory, Debanjana Kundu and Tian An Wong, we developed a way to do this by modifying in a precise way several local Hilbert Symbols and thus recovering the sign character in the explicit way we require. In this talk I will talk about this construction, some examples of it and why it was needed as well as some questions we are not yet able to settle related to it.