Towards unicity of types for some positive depth supercuspidal representations. Preliminary report.

The conjecture of unicity of types asserts that each irreducible supercuspidal representation should admit at most one type in its restriction to any given maximal compact open subgroup. This was established by Henniart for $GL_2(k)$ in 2002 and Paskunas for $GL_n(k)$ in 2005. Recently, Latham proved unicity of types for $SL_n(k)$, and for tame depth zero supercuspidal representations of arbitrary $p$-adic groups. We present recent progress on this problem for (positive depth) toral supercuspidal representations in the tame case. (Received July 06, 2017)