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Supercuspidal L -packets of G_2 in Relation to Those of SO_8 and PSO_8

Little is known about the Local Langlands Correspondence (LLC) for the exceptional group G_2 over a non-archimedean local field. However, G_2 can be realized as a twisted endoscopic group of PSO_8 , which in turn is closely related to SO_8 . Because the LLC for SO_8 is well-known, the idea is to establish connections between the L -parameters and L -packets of SO_8 , PSO_8 and G_2 . In particular, one can start by restricting their attention to supercuspidal L -parameters and L -packets in order to take advantage of Kaletha's recent parameterizations. This talk will focus on our recent progress in establishing a clear relationship between the supercuspidal L -packets of the three groups at play.