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Beth Romano* (romanob@bc.edu). *The Local Langlands Correspondence: New Examples from the Epipelagic Zone.*

Let G be a split reductive group over a finite extension k of \mathbb{Q}_p . The Local Langlands Correspondence (LLC) predicts that for every complex representation π of G there should be a corresponding field extension of k whose structure reflects certain properties of π . The LLC has been proven in many cases for large primes p , but remains mysterious when p is small. In recent work, Jessica Fintzen and I have found new supercuspidal representations for small p , and in some cases I have found the corresponding field extensions. In my talk I will give explicit examples for the case $G = G_2$. (Received August 01, 2015)