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Mitya Boyarchenko* (mityab@umich.edu) and **Jared Weinstein**. *Lubin-Tate tower and the local Langlands correspondence.*

We discuss a geometric realization of certain special cases of the local Langlands correspondence and the Jacquet-Langlands correspondence for GL_n over a p -adic field. On the one hand, this geometric construction is related to the Lubin-Tate tower. On the other hand, our proof is purely local and relies on a representation-theoretic result that can be viewed as an analogue of the Deligne-Lusztig construction for unipotent (rather than reductive) groups over finite fields. (Received January 31, 2012)