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**Yeansu Kim\*** (yeansu-kim@uiowa.edu), 14 MacLean Hall, Iowa city, IA 52242-1419. *The generic Arthur packet conjecture for classical groups and  $GSpin$  groups.*

Recently, Heiermann and I have constructed the local Langlands parameter that corresponds to an irreducible admissible generic representation of  $GSpin$  groups (the generic local Langlands correspondence for  $GSpin$  groups). I further study the structure of the  $L$ -packet which contains a generic representation. As an application, I prove the strong version of the generic Arthur packet conjecture in the cases of classical groups and  $GSpin$  groups. The strong version of the generic Arthur packet conjecture states that if the  $L$ -packet attached to an Arthur parameter has a generic member, then it is a tempered  $L$ -packet. Note that we first use Shahidi's following result: If  $L$ -functions from Langlands-Shahidi method for a connected reductive group  $G$  are Artin  $L$ -functions through the local Langlands correspondence, the weak version of the generic Arthur packet conjecture is true for  $G$ . (Received August 08, 2015)