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**Heekyoung Hahn\*** ([hahn@math.duke.edu](mailto:hahn@math.duke.edu)), Department of Mathematics, 120 Science Dr., Durham, NC 27708. *Langlands' beyond endoscopy proposal and the Littlewood-Richardson semigroup.*

Langlands' beyond endoscopy proposal for establishing functoriality motivates the study of irreducible subgroups of  $GL(n)$  that stabilize a line in a given representation of  $GL(n)$ . Such subgroups are said to be detected by the representation. In this talk we study the important special case where the representation of  $GL(n)$  is the triple tensor product representation. We prove a family of results describing when subgroups isomorphic to classical groups of type  $A_n, B_n, C_n, D_{2n}$  are detected. (Received August 23, 2016)