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David Anderson, Takeshi Ikeda and **Minyoung Jeon*** (jeon.163@osu.edu), The Ohio State University, 100 Mathematics Tower (MW), 231 W 18th Ave, Columbus, OH 43210, and **Ryotaro Kawago**. *Multiplicities of Schubert varieties in the symplectic flag varieties.*

We study the singularities of Schubert varieties at a point in the symplectic flag varieties. When Schubert varieties are associated with vexillary signed permutations, we have a combinatorial formula for the Hilbert-Samuel multiplicity of the varieties at all torus fixed point in the flag varieties. Our formula is expressed in terms of excited Young diagrams, extending results by Ghorpade-Raghavan and Ikeda-Naruse for Grassmannians, as well as Li-Yong for vexillary Schubert varieties in type A flag manifolds. (Received September 03, 2019)