1157-57-367 **Paul Drube*** (paul.drube@valpo.edu). *Divisibility of the Jones-Kauffman Polynomial for Virtual Links.*

For any virtual link $L = S \cup T$ that may be decomposed into a pair of oriented n-tangles S and T, an oriented local move of type $T \mapsto \phi(T)$ is a replacement of T by another n-tangle $\phi(T)$ in a way that preserves the overall orientation of L. In this talk, we analyze the Jones-Kauffman polynomials of virtual links L_1, L_2 that differ via a local move of type $T \mapsto \phi(T)$. Divisibility conditions on the difference of polynomials $V(L_1) - V(L_2)$ are derived for broad classes of local moves that include the Δ-move and the double-Δ-move as special cases. One consequence of these divisibility results is a new necessary condition for any pair of classical knots to be S-equivalent. (Received February 02, 2020)