## 1163-57-231 Vijay Higgins\* (vijay@ucsb.edu). Triangular decomposition of SL<sub>3</sub> skein algebras.

The Kauffman bracket skein algebra of a surface is spanned by link diagrams on the surface. If the surface has an ideal triangulation, the algebra admits a decomposition into skein algebras of triangles after we pass to the finer stated skein algebra introduced by Le. A key ingredient is the fact that the canonical basis of the Kauffman bracket skein algebra can be extended to a canonical basis of the stated skein algebra. In this talk, we will introduce a stated version of the  $SL_3$  skein algebra of trivalent webs on a surface and prove that the situation here is analogous to the  $SL_2$  case. (Received August 29, 2020)