

1075-16-187

**Gregory P Muller\***, gmuller@lsu.edu. *Skein algebras of marked surfaces.*

Given a surface with boundary and a collection of marked points on the boundary, consider all curves in the surface which end at the marked points. One may define the (Kauffman) skein algebra generated by these curves; this generalizes the ‘unmarked’ skein algebra where only loops are considered. When there are enough marked points for the surface to admit a triangulation, then remarkable new phenomena appear, including a connection to the ‘cluster algebra’ of the marked surface. Joint with Peter Samuelson. (Received August 29, 2011)