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Graph Skein Modules and Symmetries of Spatial Graphs.

In this talk, we briefly review the theory of graph-skein modules of three-manifolds and give examples of graph-skein algebras of surfaces. Then, we describe how to use this theory to study the symmetries of spatial graphs. More precisely, we use the topological invariant of spatial graphs, known as the Yamada polynomial, to introduce obstruction criteria for a spatial graph to have a prime period. (Received August 19, 2015)