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On algebraic properties of skein algebras of surfaces

For a surface F , the space of links in $F \times [0, 1]$ modulo the Kauffman bracket skein relations is called the skein algebra of F , denoted by $S(F)$. It is a non-commutative deformation of the $SL(2, \mathbb{C})$ -character variety of F , of significant importance to quantum topology. In particular, for F with boundary, it is (almost) the quantum Teichmüller space of F . We are going to explore zero divisors in skein algebras and their centers.