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Unicity for representations of the Kauffman bracket skein algebra.

Given an oriented surface F , its Kauffman bracket skein algebra is formed by taking linear combinations of framed links in a cylinder over F and modding out by the Kauffman bracket skein relation. Multiplication is given by stacking. We characterize the center of the Kauffman bracket skein algebra of any orientable surface, where the parameter in the Kauffman bracket skein relation is any root of unity. We also resolve the unicity conjecture of Bonahon and Wong, by proving that the irreducible representations of a prime affine algebra over an algebraically closed field that has a finite rank over its center are generically characterized by their central characters. (Received March 18, 2017)