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Cynthia L. Curtis* (ccurtis@tcnj.edu), Department of Mathematics and Statistics, The College of New Jersey, Ewing, NJ 08628. *The $SL(2, \mathbb{C})$ -Casson invariant: a survey.*

We discuss the $SL(2, \mathbb{C})$ -Casson invariant defined by the author in 2001. We investigate the computability of the invariant, applications of the invariant, and relationships to other invariants including the Culler-Gordon-Luecke-Shalen semi norms and the A -polynomial. Finally we discuss the difficulty in extending this definition to include contributions from higher dimensional components of the character variety. (Received July 21, 2017)