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Hans U. Boden and **Cynthia L. Curtis*** (ccurtis@tcnj.edu), Department of Mathematics and Statistics, The College of New Jersey, Ewing, NJ 07746. *The $SL(2, \mathbb{C})$ Casson knot invariant and the \widehat{A} -polynomial.*

We present a definition of the $SL(2, \mathbb{C})$ Casson invariant for knots K in integral homology 3-spheres. We establish a relationship between $SL(2, \mathbb{C})$ Casson knot invariant and the m -degree of the \widehat{A} -polynomial of K . We present an example of a nontrivial knot K in S^3 with $\widehat{A}_K(m, \ell)$ equal to that of the unknot, and we conclude from this that the $SL(2, \mathbb{C})$ Casson knot invariant does not detect the unknot. (Received August 25, 2014)