

Computation of concordance invariants of algebraically slice knots

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It is usually difficult to compute concordance invariants such as Casson-Gordon invariants and Cochran-Orr-Teichner's von Neumann ρ invariants of knots. Gilmer developed a way to compute the Casson-Gordon invariants of algebraically slice knots of genus one. Cochran, Orr, and Teichner obtained a similar result of computing ρ invariants for 1-solvable knots of genus one. We extend these results and estimate the invariants for 1-solvable knots of genus two or greater.

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