

Casson knot invariants of periodic knots with rational quotients

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(Joint work with Hee Jeong Jang and Sang Youl Lee)

We give a formula for the Casson knot invariant of a p -periodic knot in S^3 whose quotient link is a 2-bridge link with Conway's normal form $C(2, 2n_1, -2, 2n_2, \dots, 2n_{2m}, 2)$ via the integers $p, n_1, n_2, \dots, n_{2m}$ ($p \geq 2$ and $m \geq 1$). We also give a formula for the Casson knot invariant of a p -periodic knot ($p \geq 2$) whose quotient link is a 2-bridge link with Conway's normal form $C(2, 2n_1 + 1, -2, 2n_2 + 1, \dots, 2n_m + 1, (-1)^m 2)$.

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