

論文 / 著書情報
Article / Book Information

題目(和文)	ウィッテンゼータ関数とウィッテンL-関数について
Title(English)	On Witten zeta functions and Witten L-functions
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種別(和文)	要約
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We study Witten zeta functions and Witten L -functions. First, we calculate zeros and special values for Witten zeta functions and Witten L -functions for $SU(2)$ and $SU(3)$. Next, we investigate the relation between the product of conjugacy classes of $SU(2)$ and vanishing of Witten L -functions for $SU(2)$. Furthermore, we discuss the mean values of the Witten L -function for $SU(2)$.

We also consider Witten zeta functions and Witten L -functions for some finite groups. We study the order of zeros of Witten L -functions for the symmetric group S_n at $s = -2$. Finally, we introduce unified Witten zeta functions for finite groups. We give a “generalization” of the character table sum studied by Solomon (1961).