

Бесконечномерные алгебры Ли и вертекс-операторные
алгебры

Пятиминутка 8

Докажите, что

$$[T(z), T(w)] = \frac{C}{12} \partial_w^3 \delta(z-w) + 2T(w) \partial_w \delta(z-w) + (\partial_w T(w)) \delta(z-w).$$

Infinite dimensional Lie algebras and vertex operator algebras
Five-minutes problem 8

Prove that

$$[T(z), T(w)] = \frac{C}{12} \partial_w^3 \delta(z-w) + 2T(w) \partial_w \delta(z-w) + (\partial_w T(w)) \delta(z-w).$$