

Series 10

I. Mode expansion of T_{zz} : calculate $\langle T_{zz}(z)T_{ww}(w) \rangle$

Verify equation (3.85) in the notes.

II. Highest-weight states and the mode expansion

1. Verify Eq. (3.89) in the notes.
2. Verify Eq. (3.93) in the notes.