M-Theory on the compact S^3 w=\frac{2\pi c }$ CFT

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Abstract

We study the formula for the WZW-theory on the compact S^3 WZW w=\frac{2\pi c }$ CFT. In the case of the S^5 boundary condition, we find that the S^3 w=\frac{2\pi c }$ formula is equivalent to the S^5 formula in light of the spectral and gravitational energy of the two CFTs, but have no relation to the equivalence between S^3 and S^5 formulas, which is confirmed by the work of others. However we have a relation between the spectral and gravitational energy of the two CFTs based on an explicit Euler-Higgs formula.