で起対称小生理論とプラックホール" 2ラン D, overview 1. SUSY 2. SCFT 3. SVSY index

4. Superconformal Index
5. Computation of 4d SCI

6. SCI in 4d N=454M

1, 5054 Cardy tormula

8. BH entropy from SCI

O. Overview

BH: thermodynamic

macroscopic entropy:

[Bekenstein - [Janking]

S_{BH} = 46

新計力学的多深深?

34天皇教709

Seminal work by Strominger-Vata '96

For an asymptotically flat SUSY BH,

SBH - lon [# of BPS states)

新址 Ad So 带空?

Ads / CFT 对抗

Gravity on AdSatilxM) as CFTd

Q、新近AdSBHのentropy1ま cfT侧から微文視的に就中身で生るか?

> ScFT - log (# of States w/ BH's quantum numbers)

20转载

Type ILB on AdSg x 5° 6 4d SUW) N=4SYM
1= focus

(3)

重力(具)

3 SUSY BH

· 2 supercharges

, 2 angular momentum (J, J2)

(AdS5 - SO(5,1), SO(4,2) 3 cartn)

· 3 electric charges (Q1, Q2, Q3)

(5⁵ - 50(6))

$$S_{BH} = \left[Q_1 Q_2 + Q_1 Q_3 + Q_2 Q_3 - \frac{\pi}{46 \mu g_3^3} (J_1 + J_2) \right]$$

into N=45 PM DIS & Lto U

大分百己對数

4

= TV[The Mid!] = Z d ({ Qi}) e Mid!

AdS/CFT of d({Qi}) | strong coupling, N>>) ~ e SBH

SUSY index [supercontormal index)

 $T = Tv \left[\left(-i \right)^F T_i^r e^{A_i^r Q_i^r} \right]$

= \(\frac{1}{ais}\) (dg((\alphais)) - dr(\(\existr)\)) \(\existral{1}{\alphais}\)

d_B-d_F ≤ d lower bound

the lower bound

最近的遊展: Iから Spy が出る!!