

POWER CAWS

IF I CHANGE BOTH Y

AND X APPROPRIATELY

SAME FUNCTION

Y = JC X CALE INVARIANT

· EXPONENTIAL ARE NOT SCACE INVARIANT

1 THE CHARACTERISTIC SCALE

SAME FUNCTION

SCALE INVARIANT

· EXPANENTIAL ARE NOT SCALE IN UARIANT

THE CHARACTERISTIC SCALE



• >=100 SCACE DOWN of 100 (100 m = 1 m)

SHYSLANTER OF IT FACUNG FOR RECORD THE MOVIE. HOW SLOW SHOULD I RECORD THE MINISTURE TO MAKE IT REACUTIC

DON'T CARE ABOUT THE BUILD, JUST FOCKS TOP PART (SIMPLIFIED ASSUMPTION)

Vo= 0 M/5

Ds= - 1/2 y 62

E ocVas

$$S' = \lambda S \qquad OS = \Delta S' \qquad OCHM \text{ if } S.T.$$

$$\Delta S' = -\frac{1}{2} \lambda g \xi^2 \qquad \lambda \qquad (\xi')^L = \lambda \xi^2 - \Delta S$$

 $\Delta s' = -\frac{1}{2} \times q \epsilon^2 \qquad \qquad \qquad \qquad \left(\epsilon' \right)^L = \lambda \epsilon^2 \rightarrow \Delta s' = -\frac{1}{2} \phi \left(\epsilon' \right)$

CHANGE BETWEEN THE MODES IN THE

STUDIO AND THE SHYSCAPER

PRICE EXPLOSE W/ HIGH VEGGITY CASE 2.

DS= VoE

15'= > VoE

CAN NOT PEPERT SINE ARGUNENT AS BEFORE. THE ONLY CONSTANT 15 VO THAT IS NOT UNIVERSAL - IF IT WAS A WIN. CONSTANT I SHOVED SLACE THE TIME LINEARLY

LIME IC FOR CIGIN

IN THIS NEW COORDINATE SYSTEM.

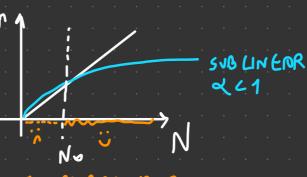
$$\begin{bmatrix} \frac{dA}{dB} \end{bmatrix} = \begin{bmatrix} A \end{bmatrix}$$

THE BITEMBA DOES NOT CHANCE W/ THE LINIT

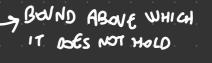
SCAUNG ARGUMENT

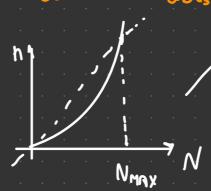
- C = AB 1. PREDICTING
- 2. PREDICTING THE EXISTENCE OF BOUNDS
- 3. USEFUL FOR MODELING











SPHERICAL COW MODELS

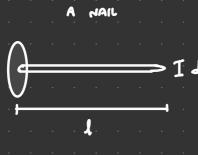
DEJURIBE A CON AS A SPACKE FIRST A PPROXIMATION

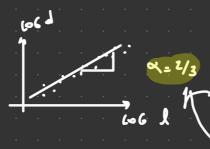


WEIGH FORCE

FMAX = L3R2

6113 Say = C+12





FLF, IF FOFB

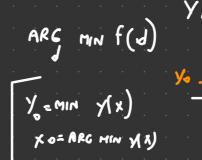
IT IS FAVORABLE TO

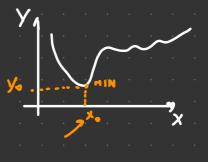
BEND

MINIMIZE THE FORCE F NEWS

> = DEPENDS ON & MINIMIZE & TO \$

Force on the custo





J= AR6 MN F(J) $d \propto \frac{1}{3^2} \Rightarrow d^3 < 4^2 \Rightarrow d \propto 1^{2/3}$ IS WHAT WE EXPECTED

Considering spherical cow

ASSUMPTAN: PIS CONSTANT } = constant

60CA 2R²] / R 2 n^{1/3}, 62 m^{3/3} = ~

IF AXB THEN BOX A ALSO IF A OX & THEN AB OX C