1. Darkness
2. Drop Chart
3. Sandbagged
4. FAD + DC
5. Temporal Gauge
6. Broken + Drill
7. Up the Mountain + Down
8. Too Few Shrew Mice

2. Name dropping
3. Heroes, mentors, colleagues
4. Scooper

9. Expressive detached
10. Out to pasture (I)
11. DC Politics
12. Out to pasture (II)

Because Physics is Fun!

Why do we do Physics?
No:
Fermi
Einstein
Landau

Yes:
Dirac
Bohr
Heisenberg
Feynman
Oppenheimer
Sakharov
Zeldovich
Kapitsa

BIG NAMES
SCOPED!!

1950's Buzzwords

Analyticity
Unitarity
Causality
Dispersion Relations
S-Matrix Theory
Regge Trajectories
Temporal Gauge

"Goldstone boson"

"Gap Equation"

Nambu

Temporal Gauge

\[ A_0 = 0 \]

\[ A = \int dt' \delta \left( \mathcal{L}_{\text{int}} \right) \]
Broken & Dull

Translation: Broken & Dull
Walter Simmons
Sandip Pakuasa
San Fu Tuan

My Hawaii Connection:

Jack Keffel

Park City

Math

Cosmic ray

Too Few Skew Mills
The memo to Bart Ritter

(Not Helen Quinn)

Oh, ***!!!

November 1994: The 4 is disconnered at Slae

Executive Deletted
Minimax (TR844): Experimental Search for DCC

DCC: Disoriented Chiral Condensate

FAD: Full Acceptance Detector for the SSC

After

Before

Variance

Hot

Vaccine

Dec

Heat Shell

DNA
(Large Mackerman + big)

Sky

Space

Cosmic ray "nugget" (wack matter)

Sandbagged

Evaporation

Distillation

Terra

 Firmin
Dark energy

Cosmology

CR

1999-2015: Physics is still fun

1998: I retire

Out to Pasture (II)
When dark energy dominates:

\[ \text{DARKNESS} \]

\[ \frac{\gamma}{\Gamma} \approx \frac{\gamma}{\Gamma} - \frac{\gamma}{\Gamma} + \frac{\gamma}{\Gamma} \text{ (near + zebra)} \]

MacDowell-Mansouri:

Einstein-Garfagnini:

Einstein-Hilbert:

The descriptive language (categorizations):

The problem: What is dark energy?
Before

It's different now.

Getting serious

Not so now