

Illuminating



@80...with his own images

*Comments on observing the 2 American eras in the life of ADR:
...a renegade entering*

~1971-74...reforming Harvard theory graduate education...with Howard

~1984-89...inventing physics department at Boston University

leaves of absence without absence:

himself, Shelly, Howard, Deser, Jaffe, Farhi...many others
sabbaticals in Boston:

't Hooft, Altarelli, deRafael, Applequist...many others

First encounters, CERN, 1970-71

In common

ADR: exp't nuclear physicist
...but "knows how to calculate"

Renegades in a medieval monastery, Cambridge MA '71 - '74

Ass't Profs? No, disposables, assisting THE Profs

ADR: Shelly, Sidney, Steve (from MIT)

LRS: ν 's at FNAL; Carlo commutes

our era: juice sucked from 22 ass'ts

Inventing theory families

Sidney's door: 13 PhD theses/year???

Disruptive transformations, across the Charles River ~'84- '89

President Silber enlists Shelly & Alvaro as co-conspirators

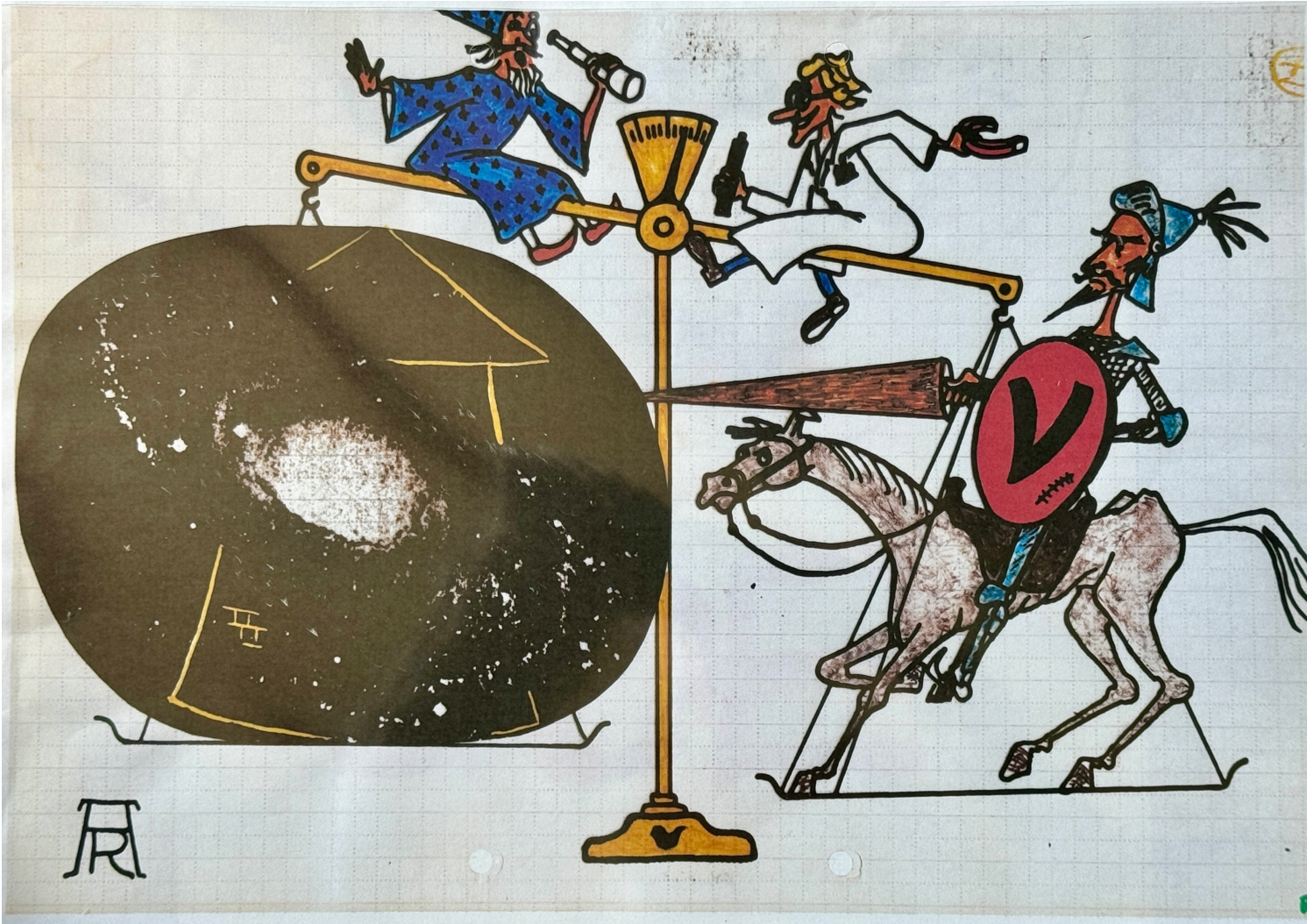
ADR's honesty...+BU \$s – CERN SFR

Consolidation: BU & CERN, CMS +

> '09 thru 4 DGs, w/ Augusto, Tiziano
BU/CERN/DOE internships

Early impressions:

*“the last Spanish Marquis, a modern Don Quixote,
tilting at the windmills of physics, trying to discern the secrets hidden below.”*



the ubiquitous monogram,
ripoff of Albrecht Durer

...such clever (biting?) humor...

(& not exactly a model of sensitivity)

but is Alvaro the real deal???

Let's take the opportunity of
encountering his library/study.

Immediately confronting you is Felix!

A spitting image of Alvaro from 250 years past:



Alvaro's predecessor:

The Marquis de Rujula
1780

is painted on the bottom line.

In the US, twas the era of “thou shalt identify your Hispanics!”

At the weekly physics faculty meeting,
to which once a month assistants were invited,

Paul Martin, Chairman of the department, announced:
”Do we have any Spanish sir names???”

Following up: Alvaro had calling-cards printed up,
the names covering both sides of the card.

card

Skipping forward 10 years...

Alvaro in service of the
Superconducting Super Collider:
(the LHC only a glimmer in Carlo's eyes)

Scottsdale Arizona, 1985:

BU Board of Directors meeting
>\$200 M for
+20 brainy faculty
2 new buildings
electronics & instrument shops
doubling the # of students

BIG SCIENCE

IS A SUMMIT OF CIVILIZATION

(THE SUMMIT OF TECHNOLOGICAL CIV.)

INDEED GREAT CIVS. HAVE ALWAYS
CONTRIBUTED GREAT COLLECTIVE WORK

THE GREAT
PYRAMIDS

: ETERNAL LIFE

CHEOPS, CHEPHREM,
IMKERINGS, MITERAND

THE GREAT CATHEDRALS
TEMPLES, PAGODAS, MOSQUES

: GLORY OF GOD(S)

THE ROMAN ROADS
THE PARISIAN AVENUES

: HOOFS OF EMPIRE'S HORSES

A HANTO THE MOON

: SCREW'EM RUSKIES

SUPER COLLIDERS

: UNDERSTAND
NATURE

WE MAY FINALLY BE GETTING THE
MOTIVATION RIGHT: DIFFICULTY!

*1985 Convincing 20 very conservative
stock market brokers
President State Street Bank
Publisher, Bay State Banner*

...

...to invest in quarks???

*Enlisting Alvaro as co-conspirator
building up BU Physics for the SSC*

*“Alvaro was a really big hit...”
S. Simpson,
innocent by-standing architect*



But did the Alvaro-Shelly-Silber co-conspiracy succeed?

Measuring in 2005, end of the “20 year plan”,
by all objective criteria

papers

citations

funding/faculty member

etc.

in top 10, comparing with US private research universities.

& *by 2024,*

>250 US ugrad interns have had ~6-8 month experiences at CERN

*Beside those 80 years of Physics research innovation,
Alvaro @ 80 has imprinted an indelible impact overseas:*

Early 1970s:

**Alvaro conquering Harvard Physics as
“Instigator of a youngsters’ Insurrection”**

Middle 1980s:

**Alvaro succeeding as
Initiator and Brain (“Head”) Hunter,
building a complementary Boston physics operation**