



Lindsay Olson

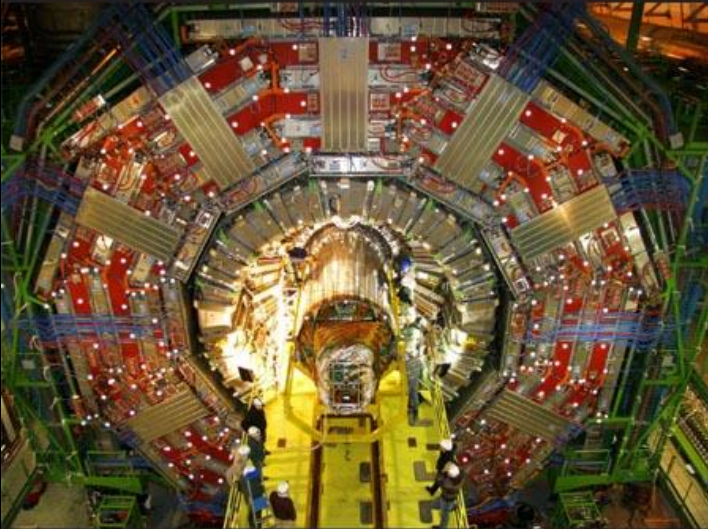
The Art of High Energy Physics: Using Art for Outreach



Fermi National Accelerator Laboratory



THE QUANTUM FRONTIER



THE LARGE HADRON COLLIDER

DON LINCOLN *Foreword by Leon Lederman*

Quarks

u up	c charm	t top
d down	s strange	b bottom

e electron	μ muon	τ tau
ν_e electron neutrino	ν_μ muon neutrino	ν_τ tau neutrino

Leptons

Forces

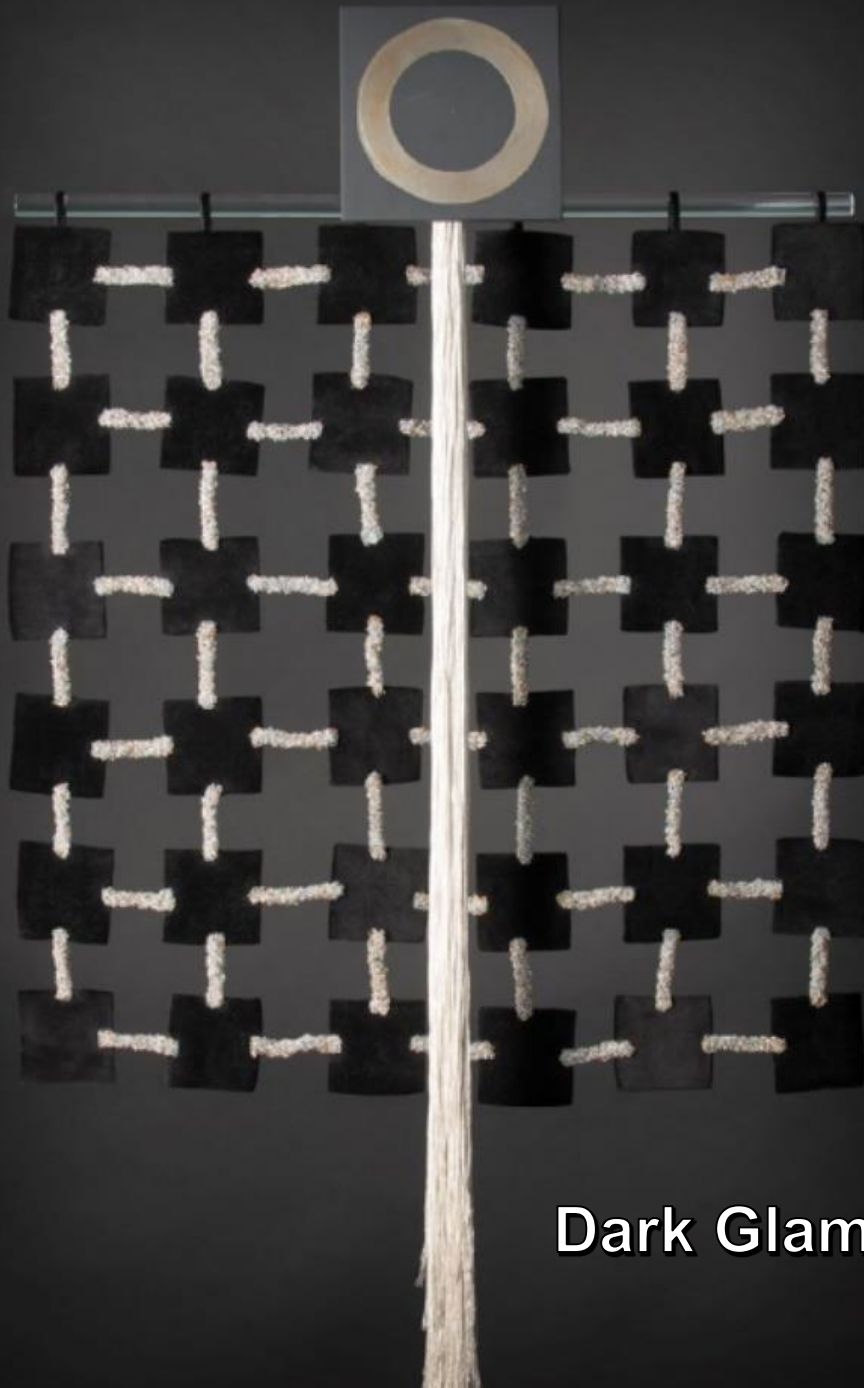
Z Z boson	γ photon
W W boson	g gluon





Nuts and Bolts

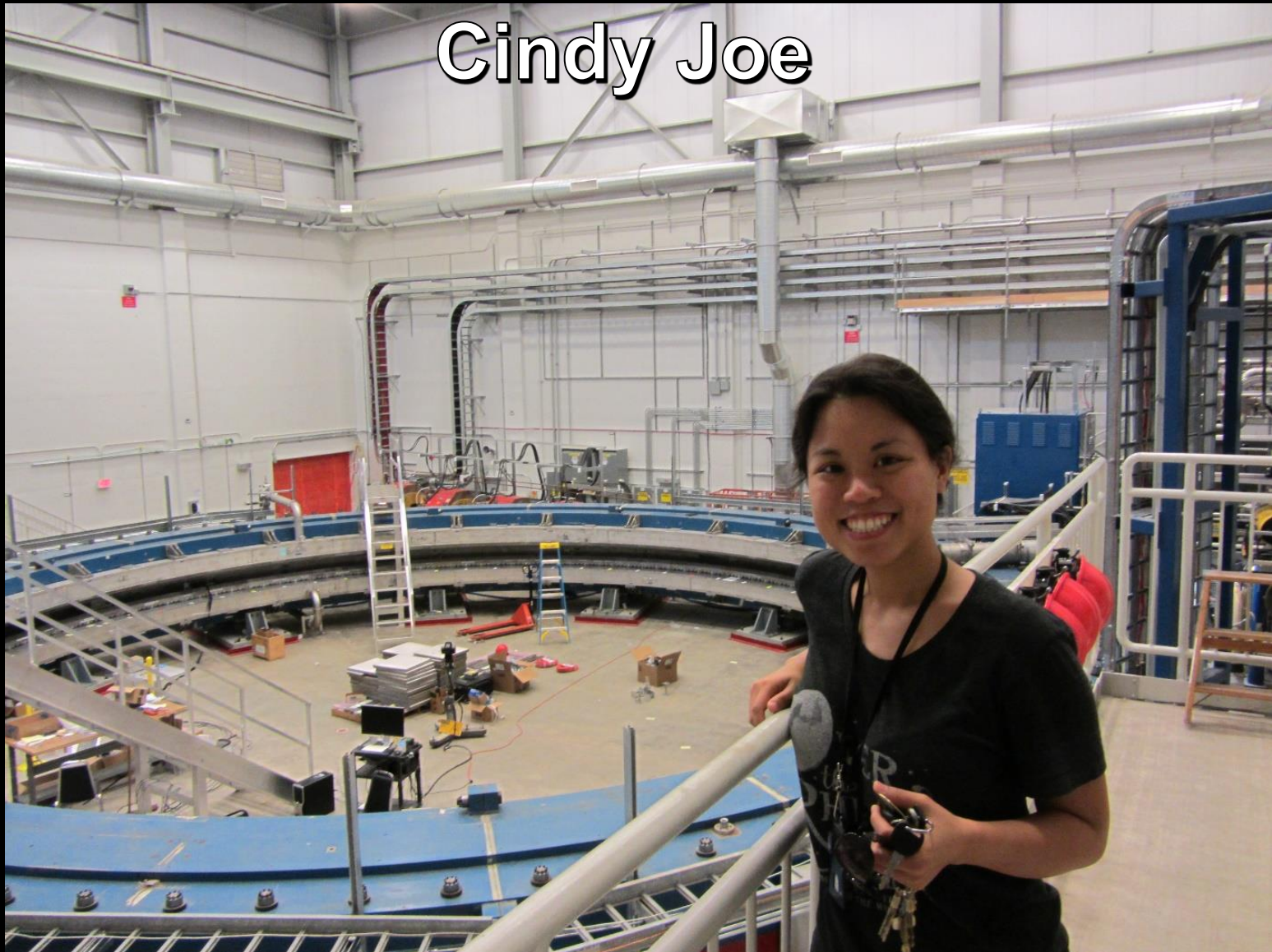




Dark Glamour: Neutrinos II

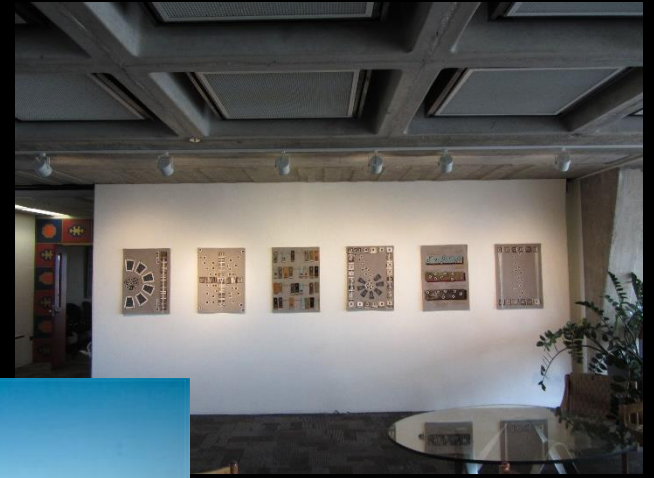
Accelerator Division

Cindy Joe



Art@CMS

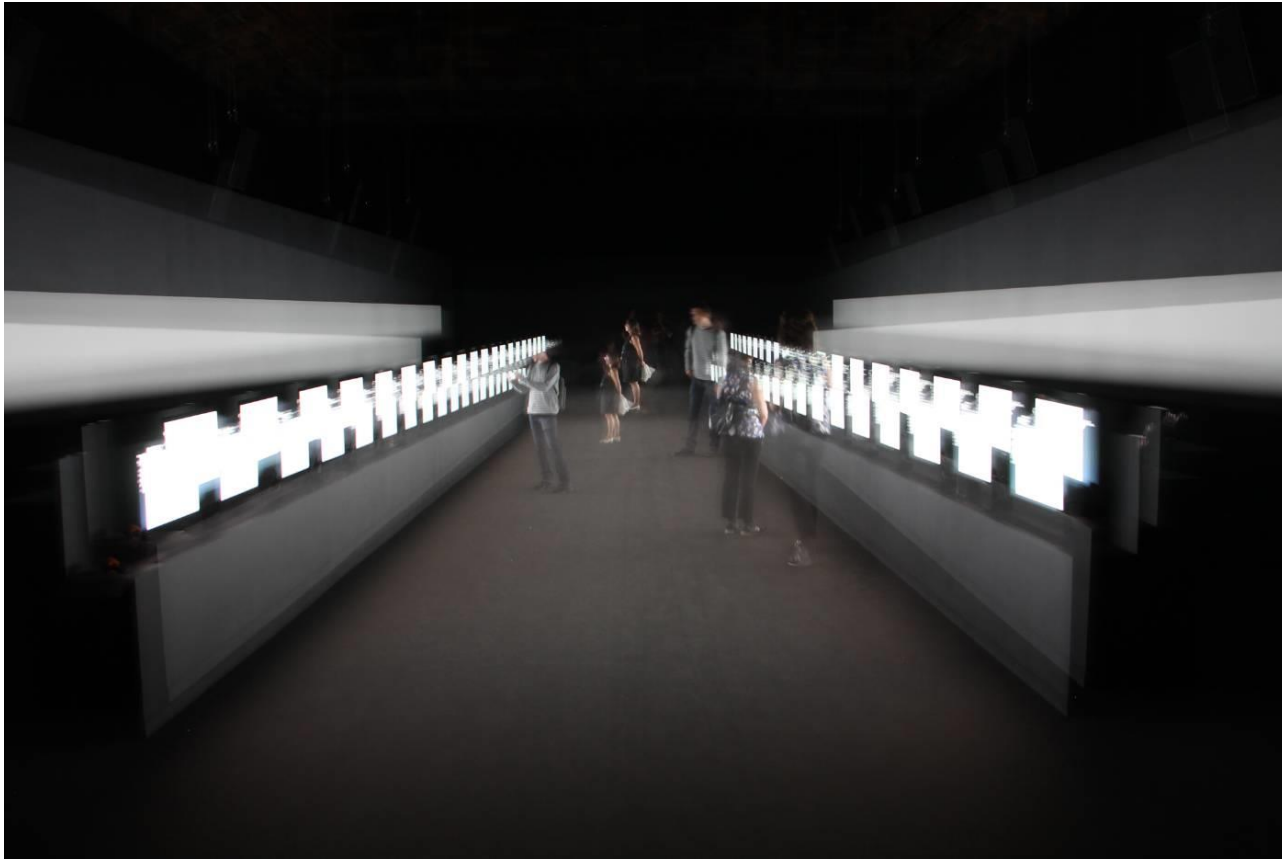






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A R T S - A T - C E R N



Supersymmetry. Ryoji Ikeda (JP), 2015. CERN Artist in Residency (COLLIDE Award)

A R T S - A T - C E R N

Arts@CERN was born in **2011**

CERN's cultural policy ***Great Arts for Great Science***

Leading **arts and science**
program

20 artists per year

New **expert knowledge** in the
arts

Fundamental aspect: scientists
and CERN community
**involvement in artistic
research**

A R T S - A T - C E R N

COLLIDE Residency Award

- Flagship program: research on artistic practice by encountering the multi-world of particle physics
- Residency for up to 3 months at CERN
- COLLIDE International Award, COLLIDE Geneva, COLLIDE Pro Helvetia

ACCELERATE Residency Award

- Country specific research award
- Two countries every year
- One-month residency

GUEST ARTISTS

- For established artists and cultural researchers
- Invitation to CERN for a short exploratory visit to learn about what CERN offers to arts and creativity
- Three- five visits per year



A R T S - A T - C E R N

Yunchui Kim, COLLIDE International Artist 2016

International collaborations and funders

- Network of international partnerships to reach other audiences and enrich Arts@CERN's mission.
- Arts@CERN partners are governmental and cultural institutions interested in working in collaboration with CERN.
- Annual budget: CHF 210,000, CHF 125,000 fundraised by the Arts@CERN team.

A R T S - A T - C E R N

“Great Arts for Great Science”



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