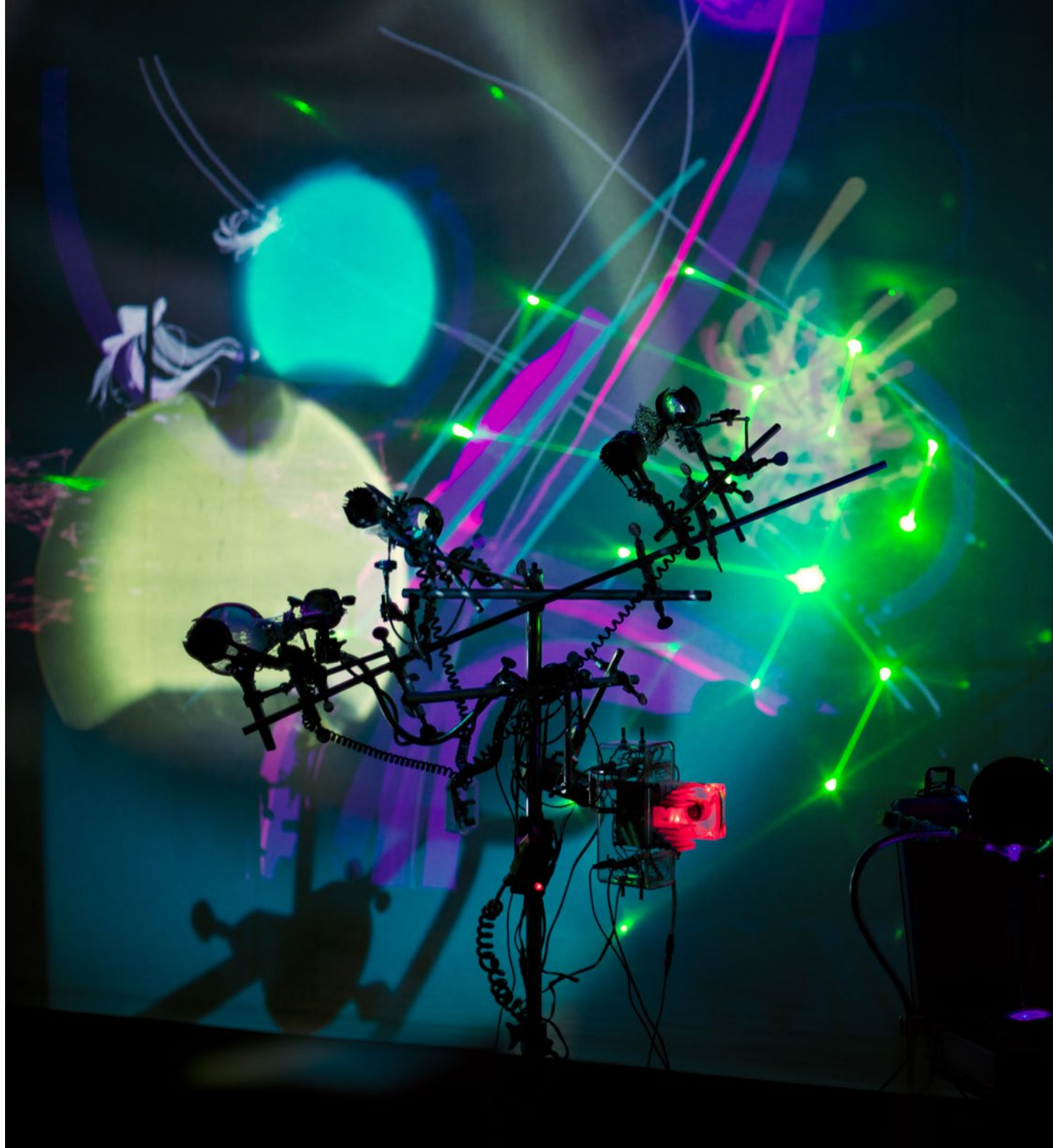


‘Spacetime tells matter how to move and matter tells spacetime how to curve’.

John Archibald Wheeler

Artists, like scientists have always been able to make visible the invisible. Both investigate the nature of reality, and where we come from. Artists primarily explore the world through sensorial experiences and scientists through mathematics and formulas. Although their approaches are radically different, both represent unique and valuable ways of knowing.

PROJECTING PARTICLES 2015



PROJECTING PARTICLES

In our new series, PROJECTING PARTICLES, we have formed an interdisciplinary team of programmers, artists, scientists and educators to investigate how we can create art and education interventions to explore emerging particle physics theories that are radically challenging our understanding of ourselves and our universe.

We believe that a deep and personal understanding of these new concepts about space-time and matter-energy can have a profound impact on the way we visualize and interact with the world around us. We are interested in this research personally, artistically and as a medium for positive social change.



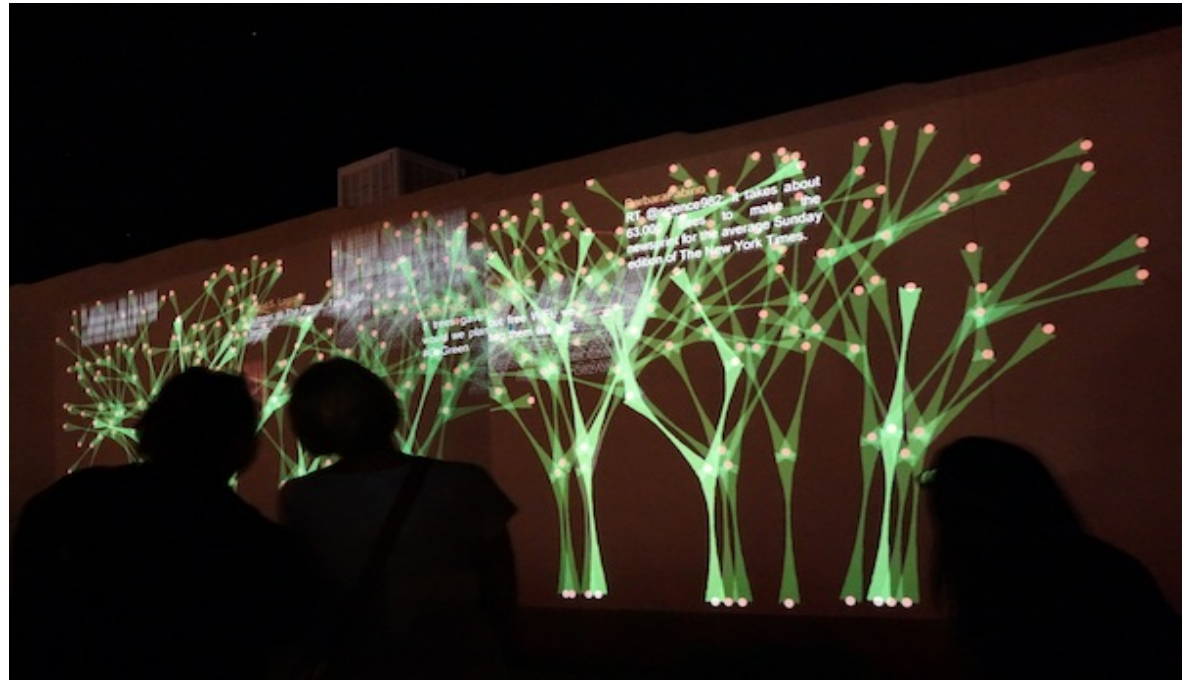
12th Havana Biennial

Through this work, the PROJECTING PARTICLES team has been invited to participate in a collective exhibit, “Between, Inside, Outside” at the 12th Havana Biennial in Havana Cuba in May 2015.

We will produce an **interactive installation** that combines data visualization and projection art similar to (x)trees which was presented for ISEA2012.

In addition, We will lead a PROJECTING PARTICLES **youth workshop** in Havana. Students in the PROJECTING PARTICLES workshop will have the unique experience of an art/science exploration. Using iPads and the Tagtool App students create physics-inspired projection art and together we will engage the public in a series of **projection interventions** in the streets of Havana for the opening event.

This will be a *University of New Mexico* class and four graduate students will assist us in Havana with photo/video documentation, the youth workshop and projection interventions on opening night.



Schedule – Projecting Particles at 12th Havana Biennial

May 15	May 16	May 17	May 18	May 19	May 20	May 21	May 22	May 23	May 24
Arrival	Installation	Installation & Workshop Preparations	Installation & Workshop Preparations	Youth Workshop Day 1	Youth Workshop Day 2	Day Off	Biennial Opening	Projection Intervention with Students	Departure



The Team – *Projecting Particles at 12th Havana Biennial*



Agnes Chavez

ARTIST & EDUCATOR

U.S.A./ CUBA

Chavez experiments with data visualization, sound and projection art to create participatory environments. She collaborates with programmers to create algorithmic drawings generated from data and projected in real time on to buildings, walls and spaces.



Markus Dorninger

PROJECTION PAINTER

AUSTRIA

Dorninger's work comprises projection interventions in public space, installations and stage performances. He often collaborates with musicians, and much of his output is based on improvisation and freestyle storytelling.



Malu Tavares

DOCUMENTARY FILMMAKER

BRAZIL / AUSTRIA

Tavares has dedicated herself to research narrative contaminations between contemporary media, languages and genres. She applies her insights in film and television, blending fiction, documentary and experimental esthetics into a characteristic voice.



Imanol Gomez

CREATIVE TECHNOLOGIST

SPAIN / GERMANY

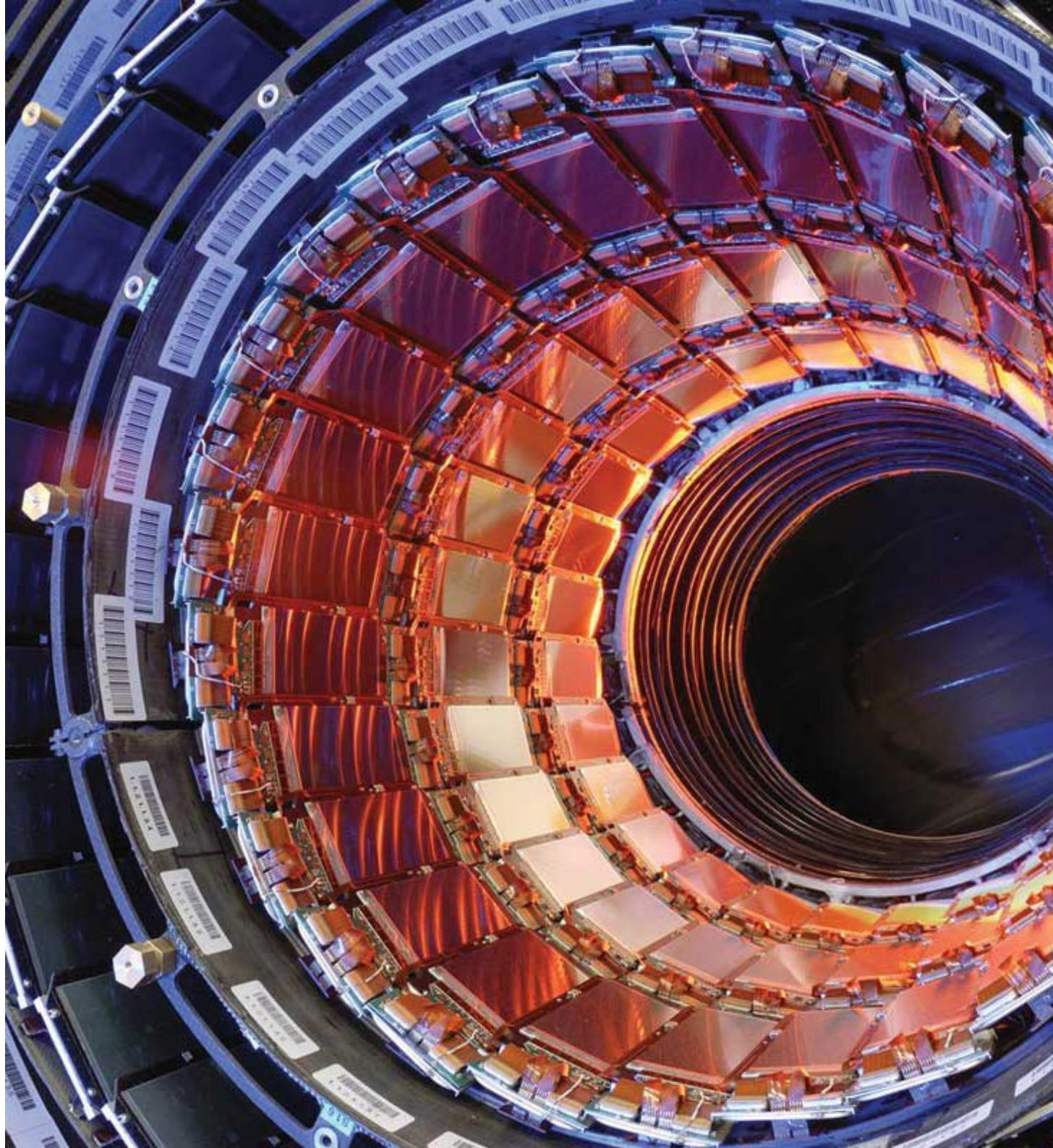
Gomez has worked on a broad range of media art projects for artists, museums and companies. He continues to find forward thinking creative solutions using cutting-edge creative technology and to pursue his enthusiasm for redefining interactive storytelling.

Atlas Experiment@CERN

In preparation for this work, Creative Director Agnes Chavez has been invited to participate in a 2-week residency and collaborate with Dr. Steve Goldfarb, physicist and educational outreach coordinator, at the ATLAS Experiment@CERN physics laboratory in Geneva. This research will inform and inspire the PROJECTING PARTICLES series and the interactive design of the art installation.

New Mexico Tour 2015/16

These two events will be the launching point for the 2015/16 PROJECTING PARTICLES Tour. We will present the installation and youth workshops in Europe and the US, including workshops at the national Hispanic Cultural Center, Explora and the Bradbury Museum in New Mexico. Additional venues are being scheduled now.



The PROJECTING PARTICLES project, which has received the endorsement of Senator Tom Udall, is poised to expand student and public awareness on particle physics concepts at this exciting time in the history of physics.

Just as exciting, for the creative director Agnes Chavez who is Cuban-American, is that we will participate in this prestigious international art event at this historical time in US-Cuba relations.

Thank you for your interest,

The Projecting Particles Team

