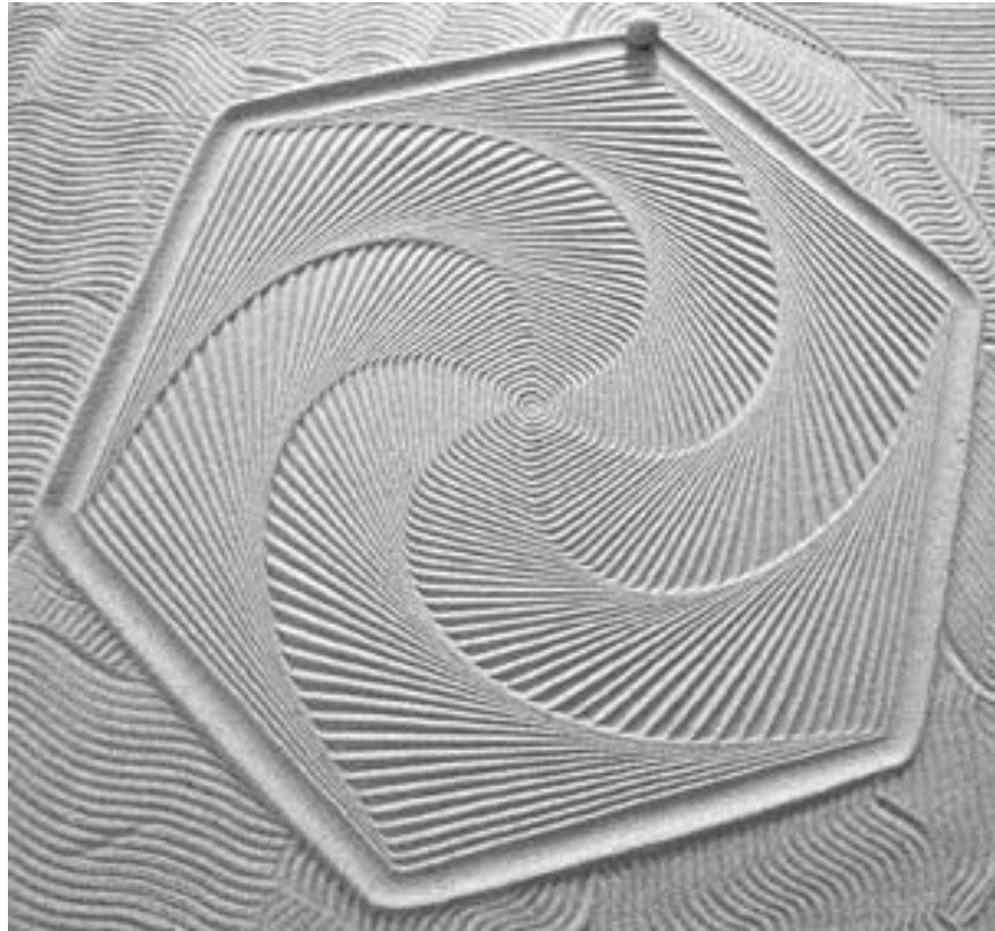


VISUALIZING SCIENCE THROUGH ART

Oct. 10th, 2013

MAT 254

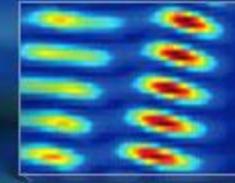
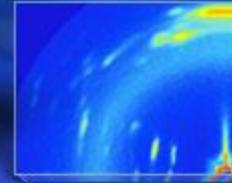
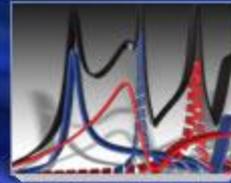
Jatila van der Veen



Jean-Pierre Hébert,
Ulysses,
Sand installation
KITP

RESEARCH QUESTIONS:

- 1) **How do scientists transition from analysis of data to discovery?**
- 2) **What are the methodologies and what are the processes by which those transitions take place?**
- 3) **Do artists proceed in a similar or different way?**
- 4) **What are the methods of representation?**
- 5) **To what degree does aesthetics play a role in the process of scientific discovery and representation?**



UCSB

SCHULLER LAB
ELECTRICAL AND COMPUTER ENGINEERING**<http://labs.cnsi.ucsb.edu/schuller/>****Jon Schuller**

Assistant Professor

Electrical and Computer Engineering

Contact Information

Phone: (805) 893-4295

Email: jonschuller@ece.ucsb.edu

Office: 3221C Engineering Sciences Building

Research:**Dielectric Antennas****Molecular Antennas**

- **What sense did you get from Professor Shuller about his work that addresses the research questions for this class?**
- **What further questions would you like to ask?**



<http://www.asci.org/>

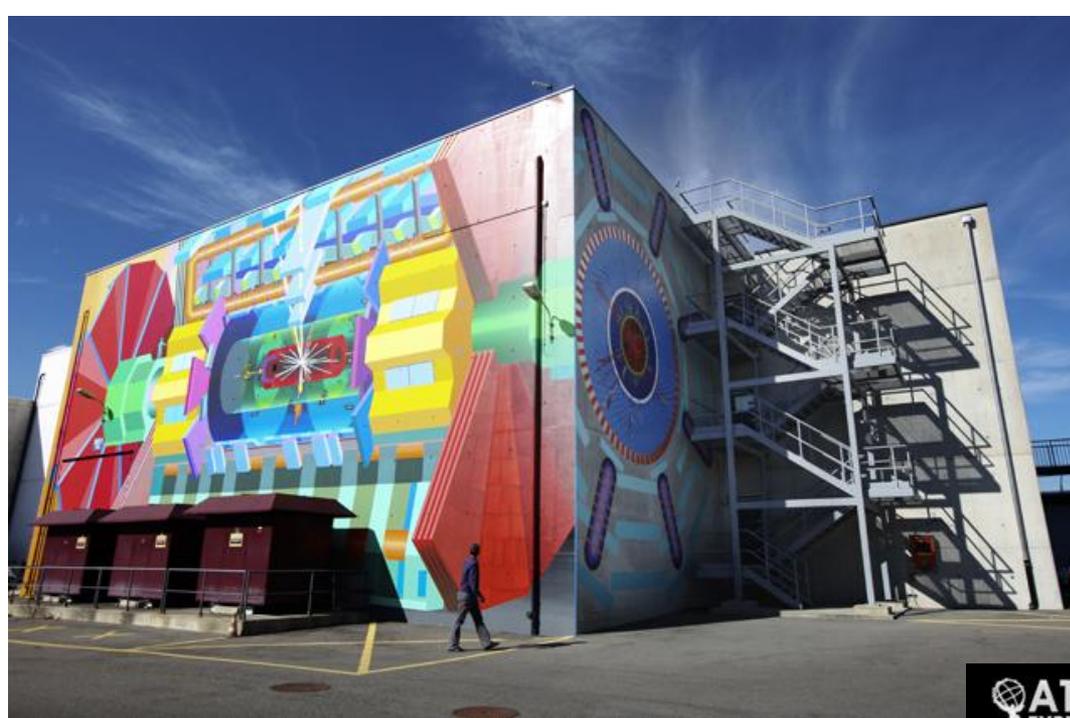
The purpose of Art & Science Collaborations, Inc. (ASCI) is to raise public awareness about artists and scientists using science and technology to explore new forms of creative expression, and to increase communication and collaborations between these fields.

Art & Science Collaborations, Inc. service to the art-sci community since 1988

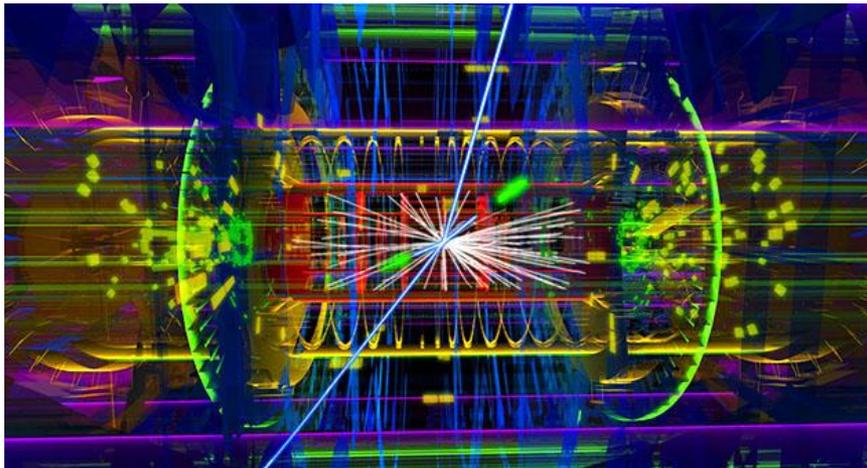


Ongoing international art-science collaboration.

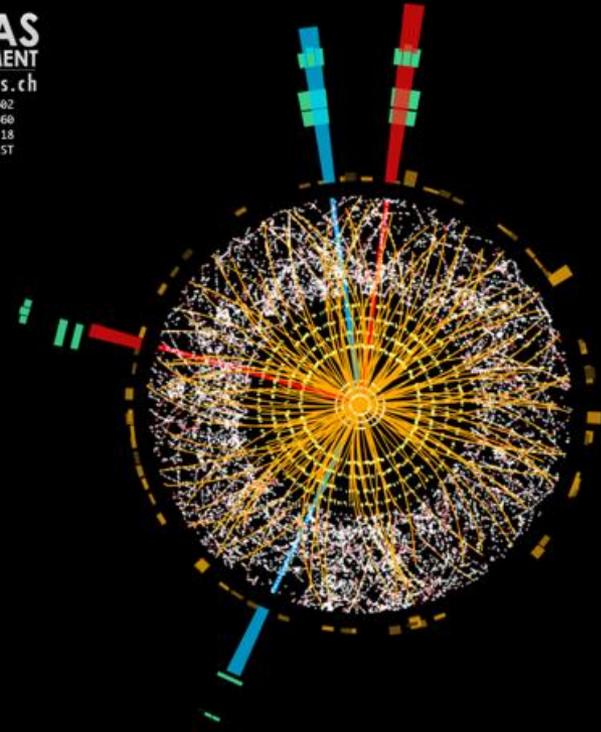
Artists collaborate with physicists at the LHC



<http://www.scientificamerican.com/article.cfm?id=large-hadron-collider-lhc-art-physics>



ATLAS
EXPERIMENT
<http://atlas.ch>
Run: 203602
Event: 82614360
Date: 2012-05-18
Time: 20:28:11 CEST



Take a look at these articles, which I posted on the class forum :

<http://www.mat.ucsb.edu/forum/viewtopic.php?f=64&t=224>

1) On the Art of Scientific Imagination – Gerald Holton

Gerald James Holton (born 1922) is [Mallinckrodt](#) Research Professor of [Physics](#) and Research Professor of the [History of Science](#), Emeritus, at [Harvard University](#)

2) Physics and Reality – Albert Einstein

My questions for you:

- 1) As artists, how do you see yourselves working with scientists to represent their work?**
- 2) What is your motivation for using science to ‘make work’ of your own?**