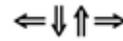


T.O.E.

“SYNERGIES EN RÉSONANCE”



an exhibition curated by Luca Pozzi

*Centre d'Art Bastille
29th of september - 20th of november 2011*

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d.c.a

T.O.E (synergies in resonance)

T.O.E. Theory of Everything is an exhibition curated by the artist Luca Pozzi for the CAB Bastille Art Center (Grenoble, FR) in relationship to the Art / Science Biennale organized by the Hexagon, Meylan National scene.

This project originated from an invitation by Vincent Verlé, director of CAB, to Luca Pozzi asking him to develop a curatorial proposal based on his own artistic research to further investigate the artist's approach and his inclusion in a given cultural environment.

Taking place at a time particularly sensitive to issues such as sustainable development and renewable energy, the exhibition's purpose goes towards unexplored territories, those in which energy manifests itself fully, where questioning the protection of resources is replaced by that of its genesis and its «harmonious» combinations.

Luca Pozzi has therefore decided to study the birth of energy, to trace its origin, without prejudice. To do so, he studied various conjectures of physics such as the string theory, the twistor theory and the various formalisms of quantum gravity. He assembled them to create a set free of mathematical contradictions, a visual experiment causing to imagine, on a macroscopic scale, vacuum energy.

He sought to understand and visualize this oxymoron, combining resources in art and science, the dynamics that have led to the mother of all creations. He investigated a reality in which the concepts of the infinitesimal and the infinitely great co-exist. A reality where even the best scientific theories such as general relativity and quantum mechanics collapse because they are no longer able to deliver final results to their equations, which consequently become conjectures producing hypotheses instead of rules.

Science is an art and art is a science, the concept of beauty and elegance persists in both languages, with very similar meanings. Both a scientific conjecture or an artwork is beautiful when it is simple yet with impact, when with an extreme economy of means, a formal and conceptual revolution takes place that permits a transcendence to the world as we know it. Both the quality of an artwork and a scientific theory is directly proportional to the amount of information it contains ($Q = K J$ where Q stands for the quality, J for the information and K the proportionality constant).

T.O.E (Theory of everything), in theoretical physics as in the exhibition, has as main objective to lay down the foundations for a concrete vision of revolutionary perspectives mentioned by the most important scientists of our times such as : Abhay Ashtekar, Lee Smolin, Edward Witten, Carlo Rovelli, Leonard Susskind, Roger Penrose, Stephen Hawking, Alain Connes and their teams. The artworks in the exhibition have been selected based on their ability to visualize the ephemeral bridges between words, languages, and between different formalisms in order to bring forward an unified reality.

With Bruno di Bello, Attila Csörgö, Matthew Day Jackson, Michel François, Franka Hörnschemeyer, Yves Netzhammer, Luca Pozzi, Rafaël Rozendaal, Tomas Saraceno, Angelo Sarletti, Conrad Shawcross & Raymond Achheim, Abhay Ashtekar, Roger Penrose, Carlo Rovelli.

T.O.E (synergies in resonance)

Luca Pozzi

artist, curator of the exhibition.

Luca Pozzi was born in Milan (Italy) in 1983 where he now lives and works.

Luca Pozzi studied 3D modelling at the Albe Steiner Institute of Milan from the year 2000 to 2001 and was then a student at The Academy of Fine Arts of Brera in Milan for 3 years.

Artist and cultural mediator, Luca Pozzi leads, throughout his own field of references, a program aiming to extend the possible emerging of interdisciplinary connections to a network of pure information. Based on the theoretical contributions expressed by scientists and artists indirectly involved in his projects, Luca Pozzi, using different media and technologies, creates hybrid installations characterised by an original use of the force of gravity. His attention is focused on physics, in particular on the TOE (Theory of Everything), the string theory, Loop Quantum Gravity and noncommutative geometry.

Recent solo exhibitions :

Loops 2011 (Main Campus CSIC, Madrid)

U-Drawings, (Galleria Federico Luger, Milano)

A.E.W.O.M. (Museo Marino Marini Firenze)

M. Southern California-Italy 1995/2009, (Galleria Astuni, Pietrasanta).

Recent group exhibitions :

Focus on Contemporary Italian Art (collezione permanente, MAMBO, Bologna)

Arte Italiana del XXI sec. (Fondazione Arnaldo Pomodoro, Milano)

Broken Fall (Galleria Astuni)

2nd Moscow Biennale, (The Withe Hall, Moscow)

Languages and Experimentations, (MART, Rovereto).



<http://www.lucapozzi.com/>

T.O.E (synergies in resonance)

Artists :

Bruno di Bello
Attila Csörgö
Matthew Day Jackson
Michel François
Franka Hörnschemeyer
Yves Netzhammer
Luca Pozzi
Rafaël Rozendaal
Tomas Saraceno
Angelo Sarleti
Conrad Shawcross

Physicists :

Raymond Aschheim
Abhay Ashtekar
Roger Penrose
Carlo Rovelli

T.O.E (synergies in resonance)

Bruno di Bello

Born in 1938 in Torre del Greco (Italy).

Lives and works in Milan (Italy).

Senza titolo tre

2002, painting.

Courtesy the Marconi Foundation, Milan.

According to Bruno Di Bello, the selfhood of an image, by its logical and theoretical nature, coincides with the maximum of its coldness. He came to realise through a lifetime of research that digital images should therefore be considered as a new aesthetic model on the grounds that if they refer to both subject and objects, however they still have no reference or object.

Recent solo exhibitions :

2010

Gio Marconi Gallery, Milan, Italy.

Antologia, Marconi Foundation, Milan, Italy.



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Attila Csörgö

Born in 1965 in Budapest (Hungary).

Lives and works in Budapest (Hungary).

How to Construct an Orange?

1993–2002, installation.

Courtesy Gregor Podnar Gallery, Berlin.

Attila Csörgö has a particular interest in the world and the structure of the cosmos's complexity resulting in works that take us into a world combining art and science experimentation. Fascinated by perspective, treatises on geometry and applied mathematics, the Hungarian artist conceives highly complex installations that may appear a little DIY (Do It Yourself) at first sight but always induce dynamic visual experiences, giving a new light upon a reality which we sometimes forget is there.

Recent solo exhibitions :

2010

MUDAM, Archimedean Point, Grand Duc Jean Modern Art Museum, Luxembourg, Luxembourg.
Hamburger Kunsthalle – Der Gegenwart Gallery, Hamburg.

2009

Archimedean Point, Ludwig Museum of Contemporary Art, Budapest, Hungary
Domaine de Kerguéhennec, France.
Galerie Gregor Podnar, Berlin, Germany.



<http://www.c3.hu/-acsorgo/>

T.O.E (synergies in resonance)

Matthew Day Jackson

Born in 1974 in Panorama City, CA (U.S.).

Lives and works in Brooklyn, NY (U.S.).

Apollo Space Suit (after Beuys)

2008, sculpture.

Private collection, Paris, France.

The work of Matthew Day Jackson questions the myth of the American dream and the plurality of this mythology. His works therefore use a familiar iconography, recycling culturally marked images, such as the first steps of humanity on the moon, or the covers of Life magazine. By putting them together and mixing them with many art history references, he makes sure that they interact with one another, creating complex scenarios that revisit American history and reinvest his stories.

Recent solo exhibitions :

2011

In Search of, Museo d'Arte Moderna di Bologna, Italy.

Everythings leads to Another, Hauser & Wirth, London, UK.

2010

The Tomb, Peter Blum Soho, New-York, U.S.

In Search of, Peter Blum Chelsea, New-York, U.S.

2009

Dynamic Maximum Tension, Grimm Fine Art, Amsterdam, Netherlands.

High, Low, and in Between, Douglas Hyde Gallery, Dublin, Ireland.

Immeasurable Distance, List Visual Art Center, MIT, U.S.

Immeasurable Distance, Contemporary Art Museum, Houston, U.S.



T.O.E (synergies in resonance)

Michel François

Born in 1956 in Saint-Tronc (Belgium).
Lives and works in Brussels (Belgium).

Untitled

2010, photography

Courtesy carlier I gebauer GmbH, Berlin.

The works of Michel François develop an awareness to reality, as Michel François takes, crops and repositions fragments, zooms situations, freezes moments from this reality. Transpositions, confrontations and sudden appearances create sensorial experiences which disrupt the plainness of everyday life.

Recent solo exhibitions :

2011

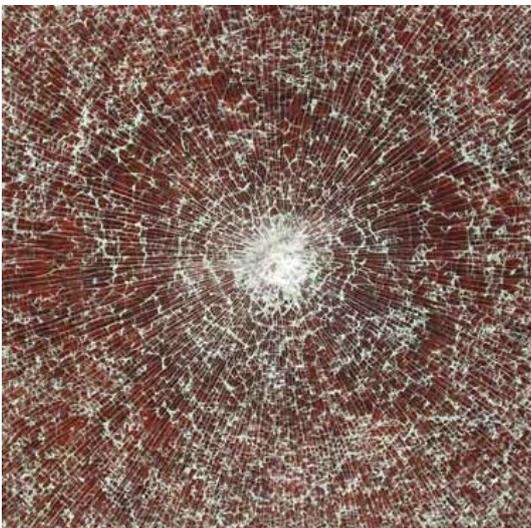
Indépendant, DIA center for the Arts, Bortolami Gallery, New York, U.S.
Kamel Mennour Gallery, Paris, France.

2010

Plans d'évasion, IAC, Villeurbanne, France,
carlier I gebauer, Berlin, Germany.
Gallery Bortolami, New York, U.S.

2009

SMAK, Gent, Belgium.
Sales Gallery, Rome, Italy.



T.O.E (synergies in resonance)

Franka Hörnschemeyer

Born in 1958 in Osnabrück (Germany).

Lives and works in Berlin (Germany).

Volume of sphere,

2010/2011, installation,

Site-specific installation, courtesy of the Nordenhake gallery, Berlin.

A comprehensive definition of space has yet to be found and the concept of space that Franka Hörnschemeyer develops throughout her work is just as countless. Her work focuses on space in the sense of volume, rooms, buildings as well as in the sense of historical and perceptive sites.

Recent solo exhibitions :

2011

Franks International, DIS>PLAY, Wilhelm Hack Museum, Ludwigshafen

2010

In the Presence of Noise, Galerie Nordenhake, Berlin, Germany.

2008

Peenemünde, Jewish Museum, Athens, Greece.

2007

Franks International, Henry Moore Institute, Leeds, UK.



This installation is realized with the support of :

KNAUFINSULATION

T.O.E (synergies in resonance)

Yves Netzhammer

Born in 1970 in Schaffhausen (Switzerland).

Lives and works in Zürich (Switzerland).

Die Möglichkeit nicht mehr haben, sich weniger ähnlich zu sein,

2003, video,

Courtesy Anita Beckers Gallery, Frankfurt.

For the past twelve years, Yves Netzhammer has been working on a pictorial and poetic cosmos with many ramifications. His drawings, installations and videos calculated by a computer interface fascinate with radiation and formal clarity. Using the playful energy of recombination, they make their way to the dark side of our existence. The pleasant engages the unpleasant, dead matter merges with the living, creating creatures never seen before, and the represented scenarios transition from a microscopic scale to a monumental scale. Netzhammer's work leads to images with an obsessive presence, images in which the hierarchy between humans, animals, plants and things begins to crack.

Recent solo exhibitions :

2009

PAN, Palazzo delle Arti Napoli, Naples, Italy.

Palazzo Strozzi, Florence, Italy.

Kunsthalle, Winterthur, Germany.

Rhys Mendes Gallery, Los Angeles, U.S.

2008

Room for Thought, SFOMA, San Francisco, U.S.

2007

Biennale de Venise, Swiss Pavilion, Venice, Italy.



<http://www.netzhammer.com/>

T.O.E (synergies in resonance)

Rafaël Rozendaal

Born in 1980 in Amsterdam (Netherlands).
Lives and works in the whole wide world.

Drawing Framed

2010, dessin,

Courtesy Ewoudt Boonstra private collection, Amsterdam.

Rafaël Rozendaal is a «neen» artist. Don't bother to look up the meaning of this word because it doesn't have any. The word was created by Miltos Manetas to single out contemporary art when adapted to the potentials of digital technology, in particular when it comes to its promotion and acquisition.

Recent solo exhibitions :

2011

From Here to There, W139, Amsterdam, Netherlands.

To walk The Night, Gloria Maria Gallery, Milan, Italy.

2010

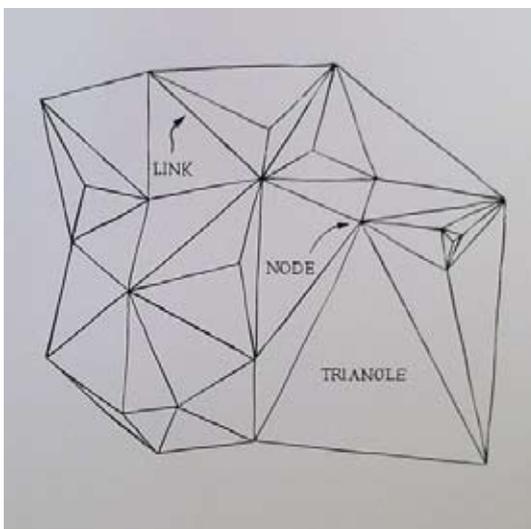
Thank You Very Much, Future Gallery, Berlin, Germany.

Perfect Vacuum, Galeri Pictura, Sweden.

Yes For Sure, NIMk, Amsterdam, Netherlands.

Broken Self, Spencer Brownstone gallery, New York, U.S.

I'm good, TSCA, Tokyo, Japan.



<http://www.newrafael.com/>

T.O.E (synergies in resonance)

Tomás Saraceno

Born in 1973 in San Miguel de Tucuman (Argentina).
Lives and works around the world.

6 Space Elevator

2010, installation.

Courtesy Alessandro Felloni Collection, Laterina/Arezzo.

Tomás Saraceno pursues the idea of an «achievable utopia» and invents light installations, kinetic sculptures, hanging gardens or inflatable architectures. Designed as vehicles «lighter-than air», his installations are often powered by solar energy and made with original materials such as Aerogel, an extremely fine film, specially designed and patented by the artist.

Recent solo exhibitions :

2010

14 billions (working title), Bonniers Konsthall, Stockholm, Sweden,

Lighter than air, Houston Blaffer Gallery, Houston, U.S.

Tomas Saraceno, Baltic Centre for contemporary Art, Gateshead, UK,

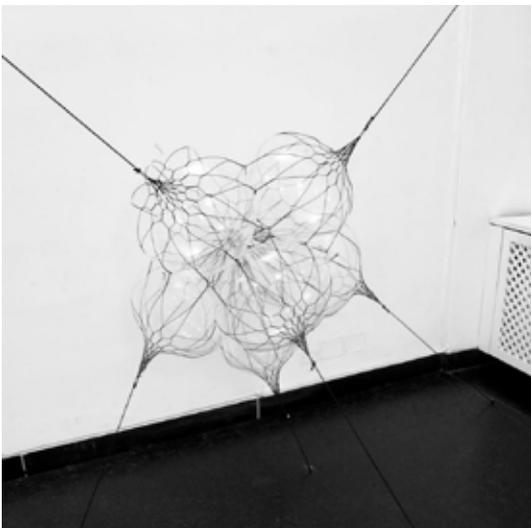
From Camogli to San Felipe, spiders weaving stars, Fondazione Pierluigi e Natalina Remotti, Camogli, Italy,

Tomas Saraceno, Andersen's Contemporary, Copenhagen, Denmark.

2009

Biosphere, Statens Museum for Kunst, Copenhagen (in the framework of the cycle «RETHINK Relations»), Denmark,

Tomas Saraceno, Mudam Grand Duke Jean Museum of Modern Art, Luxembourg., Luxembourg.



<http://www.tomassaraceno.com/>

T.O.E (synergies in resonance)

Angelo Sarleti

Born in 1979 in Reggio Calabria (Italie).

Lives and works in Milan, (Italie).

Pittura (study for the publication of Attività Clinico-Scientifica 2009-2010 of the Fondazione Don Gnocchi)

2011, Ink jet printing on paper.

Courtesy of the artist.

Angelo Sarleti's works focus upon the relationship perceived between the subject and reality, how the act of looking inscribes itself as part of the social sphere and how it ends up by constructing cultural differences or the idea of different. Following the thought that each ordinary process of representation determines our daily relationship with things, Sarleti seeks to free images of what is subtracted from the point of view, the identification strategies and those of legitimacy.

Recent solo exhibitions :

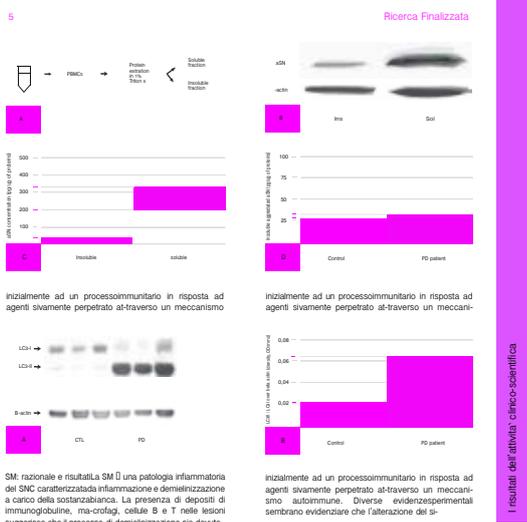
2008:

Giunglavideo.3 Parco Di Toppo Florio a Buttrio (UD), Italy,

Arrivi e partenze, Mole Vanvitelliana, Ancona, Italy.

2006:

Not here, Artra, Milano, Italy.



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Conrad Shawcross

Born in 1977 in London (UK).

Lives and works in London (UK).

Palindrome,

2008, installation.

Courtesy of the Tucci Russo Gallery, Turin.

With the appearance of being scientifically rational, Conrad Shawcross's sculptures explore topics that border with geometry and philosophy, physics and metaphysics. Attracted to research which has been aborted in the past, he often appropriates himself these redundant theories and methodologies to create, on an epic scale, ambitious mechanical structures using a wide variety of materials and media. Different technologies and different natural elements inspire his mysterious machines and structures, giving them a cryptical aura full of paradox and enchantment.

Recent solo exhibitions :

2011

Mondes inventés, Mondes habités, Mudam, Luxembourg, Luxembourg.

Victoria Miro Gallery, Londres, UK.

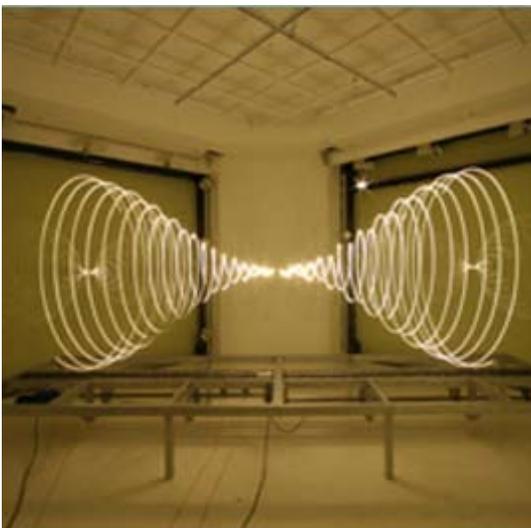
Protomodel : Five Interventions, Science Museum, Londres, UK.

2010

Fraction (9:8), Oxford Science Park, Oxford, UK.

The Nervous System (Inverted), The Pace Gallery, New York, U.S.

The limit of everything, Parra & Romero, Madrid, Spain.



<http://www.conradshawcross.com/>

T.O.E (synergies in resonance)

Raymond Aschheim

Born in April 1962.

Raymond Aschheim is a SUPELEC (1986) and HEC-Entrepreneurs (1987) engineer. He is also a researcher in mathematics, a computer scientist and a «hypersculptor.» In the science field, he studies various «Theories of everything» and broadens his model linking polytopes and octonions. He visualizes and materializes his research by creating 4 dimensional «hypersculptures», which have both an aesthetic purpose and an educational function.

Abhay Ashtekar

Born the 5th of July, 1949.

Abhay Ashtekar is an Indian theoretical physicist. He completed his Ph.D. at the University of Chicago under Prof. Robert Geroch in 1974 (thesis titled: «Asymptotic Structure of the Gravitational Field at Spatial Infinity»). He is the Eberly Professor of Physics and the Director of the Institute for Gravitational Physics and Geometry at the Pennsylvania State University. As the creator of Ashtekar variables, he is one of the founders of Loop Quantum Gravity and its subfield Loop Quantum Cosmology.

Roger Penrose

Born the 8th of August, 1931.

Roger Penrose is an English mathematical physicist who teaches mathematics at the Birkbeck, University of London where, between 1964 and 1973, he developed a theory describing the gravitational self-collapsing of stars and where he met the famous physician Stephen Hawking. Together they worked on a theory on the origin of the universe, Penrose bringing his mathematical contribution to the theory of general relativity applied to cosmology and to the study of black holes.

Carlo Rovelli

Born in 1956.

Carlo Rovelli is an Italian theoretical physicist known for his contributions to quantum gravity. He's one of the founders of «Loop Quantum Gravity», one of the main theoretical hypothesis for combining Einstein's general relativity theory with quantum mechanics. The theory of Loop Quantum Gravity predicts that space has a discrete structure at very small time, formed by elementary «atoms of space». Carlo Rovelli is also interested in the history of ancient science and in philosophy of science. In his view, scientific thinking is an intrinsically visionary and revolutionary thinking, constantly searching novel and more effective ways to conceptualize the world.