



OPERATOR ALGEBRAS AND QUANTUM PHYSICS  
 A Satellite Conference to the  
 XVIII International Congress on Mathematical Physics



USP – São Paulo, Brazil – 17 to 23 July 2015

Research Group Jorge André Swieca

### Certificate

We hereby certify that **Sabina Alazzawi**, from **Technische Universität München, Germany**, participated in the Satellite Conference “Operator Algebras and Quantum Physics”, held at the University of São Paulo, São Paulo, Brazil, from the 17th to the 23rd of July, 2015, and presented therein the talk intitled “**Rigorous Construction of Weakly Interacting Quantum Field Theories**”.

São Paulo, July 23rd 2015.

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 on behalf of the Organizing Committee

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## Certificate

We hereby certify that **Joseph Bengeloun**, from **Max Planck Center for Gravitational Physics, Albert Einstein Institute, Potsdam-Golm, Germany**, participated in the Satellite Conference “Operator Algebras and Quantum Physics”, held at the University of São Paulo, São Paulo, Brazil, from the 17th to the 23rd of July, 2015, and presented therein the talk intitled “**Tensor Models and Renormalization**”.

São Paulo, July 23rd 2015.

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**Certificate**

We hereby certify that **Jean-Bernard Bru**, from **Universidad del País Vasco and Basque Center for Applied Mathematics, Bilbao, Spain**, participated in the Satellite Conference “Operator Algebras and Quantum Physics”, held at the University of São Paulo, São Paulo, Brazil, from the 17th to the 23rd of July, 2015, and presented therein the talk intituled “**Non-Cooperative Equilibria of Spins or Fermi Systems With Long Range Interactions**”.

São Paulo, July 23rd 2015.

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We hereby certify that **Romeo Brunetti**, from **Università degli Studi di Trento, Italy**, participated in the Satellite Conference “Operator Algebras and Quantum Physics”, held at the University of São Paulo, São Paulo, Brazil, from the 17th to the 23rd of July, 2015, and presented therein the talk intitled “**Condensation and pAQFT**”.

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We hereby certify that **Detlev Buchholz**, from **Universität Göttingen, Germany**, participated in the Satellite Conference “Operator Algebras and Quantum Physics”, held at the University of São Paulo, São Paulo, Brazil, from the 17th to the 23rd of July, 2015, and presented therein the talk intitled **“Superpositions, Transition Probabilities and Primitive Observables in Infinite Quantum Systems”**.

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We hereby certify that **Claudio Dappiaggi**, from **Università degli Studi di Pavia, Italy**, participated in the Satellite Conference “Operator Algebras and Quantum Physics”, held at the University of São Paulo, São Paulo, Brazil, from the 17th to the 23rd of July, 2015, and presented therein the talk intitled “**Constructing Isometry Invariant Hadamard States via a Novel Deformation Argument**”.

São Paulo, July 23rd 2015.

A handwritten signature in blue ink that reads 'João Carlos Alves Barata'.

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We hereby certify that **Jonathan Dimock**, from **State University of New York, Buffalo, United States**, participated in the Satellite Conference “Operator Algebras and Quantum Physics”, held at the University of São Paulo, São Paulo, Brazil, from the 17th to the 23rd of July, 2015, and presented therein the talk intitled “**Renormalization Group for Gauge Theories**”.

São Paulo, July 23rd 2015.

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We hereby certify that **Wojciech Dybalski**, from **Technische Universität München, Germany**, participated in the Satellite Conference “Operator Algebras and Quantum Physics”, held at the University of São Paulo, São Paulo, Brazil, from the 17th to the 23rd of July, 2015, and presented therein the talk intitled “**Compton Scattering in the Buchholz-Roberts Setting of Relativistic QED**”.

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We hereby certify that **Klaus Fredenhagen**, from **Universität Hamburg, Germany**, participated in the Satellite Conference “Operator Algebras and Quantum Physics”, held at the University of São Paulo, São Paulo, Brazil, from the 17th to the 23rd of July, 2015, and presented therein the talk intitled “**Approaching Quantum Gravity via Algebraic Quantum Field Theory: How Far Are We?**”.

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We hereby certify that **Abel Klein**, from **University of California, Irvine, United States**, participated in the Satellite Conference “Operator Algebras and Quantum Physics”, held at the University of São Paulo, São Paulo, Brazil, from the 17th to the 23rd of July, 2015, and presented therein the talk intitled “**An Eigensystem Approach to Anderson Localization**”.

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We hereby certify that **Gandalf Lechner**, from **Cardiff University, Wales, United Kingdom**, participated in the Satellite Conference “Operator Algebras and Quantum Physics”, held at the University of São Paulo, São Paulo, Brazil, from the 17th to the 23rd of July, 2015, and presented therein the talk intitled “**O(d,1)-Symmetric R-matrices and QFT Models**”.

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We hereby certify that **Marco Merkli**, from **Memorial University of Newfoundland, St. John's, Canada**, participated in the Satellite Conference “Operator Algebras and Quantum Physics”, held at the University of São Paulo, São Paulo, Brazil, from the 17th to the 23rd of July, 2015, and presented therein the talk intitled “**Dynamics of the Spin-Boson Model for Arbitrary Coupling Strength**”.

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We hereby certify that **Bruno Nachtergaele**, from **University of California, Davis, United States**, participated in the Satellite Conference “Operator Algebras and Quantum Physics”, held at the University of São Paulo, São Paulo, Brazil, from the 17th to the 23rd of July, 2015, and presented therein the talk intitled “**Frustration-Free Quantum Spin Systems**”.

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We hereby certify that **Katarzyna Rejzner**, from **University of York, England, United Kingdom**, participated in the Satellite Conference “Operator Algebras and Quantum Physics”, held at the University of São Paulo, São Paulo, Brazil, from the 17th to the 23rd of July, 2015, and presented therein the talk intitled “**Locally Covariant QFT and Perspectives on Quantum Gravity II**”.

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We hereby certify that **Rafael René del Rio Castillo**, from **Universidad Nacional Autónoma de México, Mexico City, Mexico**, participated in the Satellite Conference “Operator Algebras and Quantum Physics”, held at the University of São Paulo, São Paulo, Brazil, from the 17th to the 23rd of July, 2015, and presented therein the talk intitled “**Inverse Spectral Analysis of Mass-Spring System**”.

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We hereby certify that **Manfred Salmhofer**, from **Universität Heidelberg, Germany**, participated in the Satellite Conference “Operator Algebras and Quantum Physics”, held at the University of São Paulo, São Paulo, Brazil, from the 17th to the 23rd of July, 2015, and presented therein the talk intitled “**Effective Action and Correlation Functions of Dilute Many-Fermion Models**”.

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We hereby certify that **Yoh Tanimoto**, from **University of Tokyo, Japan**, participated in the Satellite Conference “Operator Algebras and Quantum Physics”, held at the University of São Paulo, São Paulo, Brazil, from the 17th to the 23rd of July, 2015, and presented therein the talk intitled “**Wedge-Local Fields in Integrable QFT with Bound States**”.

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We hereby certify that **Paulo Faria da Veiga**, from **ICMC-USP - Universidade de São Paulo, São Carlos, Brazil**, participated in the Satellite Conference “Operator Algebras and Quantum Physics”, held at the University of São Paulo, São Paulo, Brazil, from the 17th to the 23rd of July, 2015, and presented therein the talk intitled “**The Particle Spectrum of Strongly Coupled Lattice QCD Models**”.

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We hereby certify that **Rainer Verch**, from **Universität Leipzig, Germany**, participated in the Satellite Conference “Operator Algebras and Quantum Physics”, held at the University of São Paulo, São Paulo, Brazil, from the 17th to the 23rd of July, 2015, and presented therein the talk intitled “**Unruh Effect, Tolman Temperature and All That**”.

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We hereby certify that **Walter Felipe Wreszinski**, from **IF-USP - Universidade de São Paulo, São Paulo, Brazil**, participated in the Satellite Conference “Operator Algebras and Quantum Physics”, held at the University of São Paulo, São Paulo, Brazil, from the 17th to the 23rd of July, 2015, and presented therein the talk intitled “**Equilibrium and Nonequilibrium Properties of Superfluids and Superconductors**”.

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