



V INTERNATIONAL SYMPOSIUM  
ON NONLINEAR PDES & FREE BOUNDARY PROBLEMS

Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Salomón Marcón*

*Universidad Tecnica Federico Santa Maria, Chile*

has presented the Contributed talks

*"Blow-up of solutions of semilinear heat equations at the almost Hénon critical exponent"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

Julian Fernández Bonder



# V INTERNATIONAL SYMPOSIUM ON NONLINEAR PDES & FREE BOUNDARY PROBLEMS

Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Marcelo Amaral*

*Universidade Federal do Ceara, Brazil*

has presented the Short Communications

*"Free Transmission Problem"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

Julian Fernández Bonder



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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Luis Caffarelli*

*University of Texas at Austin, U.S.A*

has presented the Invited Speakers

*"Models of Segregation"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

Julian Fernández Bonder



# V INTERNATIONAL SYMPOSIUM ON NONLINEAR PDES & FREE BOUNDARY PROBLEMS

Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Carmen Cortazar*  
*Pontifical Catholic University, Chile*

has presented the Invited Speakers

*"Near field asymptotics for the PME in two-dimensional exterior domains"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

Julian Fernández Bonder



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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Joao Da Silva*

*U.B.A. Argentina*

has presented the Short Communications

*"A limiting optimal design problem governed by non-local diffusion"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

Julian Fernández Bonder



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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Pablo De Napoli*

*I.M.A.S. U.B.A. Argentina*

has presented the Contributed talks

*"Symmetry breaking for an elliptic equation involving the Fractional Laplacian"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires  
Argentina, December 18–21, 2017.

Julian Fernández Bonder



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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Arturo De Pablo*

*Univ. Carlos III de Madrid, Spain*

has presented the Contributed talks

*"Regularity theory for nonlocal filtration equations"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

Julian Fernández Bonder



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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Julian Fernández Bonder*

*Universidad de Buenos Aires, Argentina*

has presented the Invited Speakers

*"Fractional order Orlicz-Sobolev spaces and applications"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

Julian Fernández Bonder





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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Irene Gamba*

*University of Texas at Austin, USA*

has presented the Invited Speakers

*"Non conservative boltzmann type equation for bose-einstein condensates for cold bosons and wave turbulence models"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

Julian Fernández Bonder



# V INTERNATIONAL SYMPOSIUM ON NONLINEAR PDES & FREE BOUNDARY PROBLEMS

Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Guillermo Goldsztein*

*School of Mathematics Georgia Institute of Technology, USA*

has presented the Short Communications

*"Non-linear homogenization. Modeling composit"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

Julian Fernández Bonder



# V INTERNATIONAL SYMPOSIUM ON NONLINEAR PDES & FREE BOUNDARY PROBLEMS

Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Paula Kuna*

*U.B.A.I.M.A.S., Argentina*

has presented the Short Communications

*"A principle of relatedness for systems with small delays"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

Julian Fernández Bonder



# V INTERNATIONAL SYMPOSIUM ON NONLINEAR PDES & FREE BOUNDARY PROBLEMS

Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Sandra Martinez*  
*U.B.A. Argentina*

has presented the Contributed talks

*" $H^2$  regularity for the  $p(x)$ -Laplacian in two-dimensional convex domains"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

Julian Fernández Bonder



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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*José Mazón*

*Universidad de Valencia, Spain*

has presented the Invited Speakers

*"Nonlocal Perimeter Curvature and Minimal Surfaces for measurable sets"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

Julian Fernández Bonder



# V INTERNATIONAL SYMPOSIUM ON NONLINEAR PDES & FREE BOUNDARY PROBLEMS

Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Diego Moreira*

*Universidade Federal do Ceara, Brazil*

has presented the Invited Speakers

"TBA"

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires  
Argentina, December 18–21, 2017.

Julian Fernández Bonder



# V INTERNATIONAL SYMPOSIUM ON NONLINEAR PDES & FREE BOUNDARY PROBLEMS

Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Nora Muler*

*Univ. Torcuato Di Tella, Argentina*

has presented the Contributed talks

*"Multidimensional optimization of dividends: a problem with free regions"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

Julian Fernández Bonder



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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Mayte Pérez Llanos*

*U.B.A.I.M.A.S., Argentina*

has presented the Short Communications

*"Opinion formation models with heterogeneous persuasion and zealotry"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires  
Argentina, December 18–21, 2017.

Julian Fernández Bonder





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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Edgard Pimentel*

*PUC-Rio, Brazil*

has presented the Contributed talks

*"Hölder-regularity for asymptotically elliptic operators"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

Julian Fernández Bonder



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In honor to Prof. Noemí Wolanski

We certify that

*Fernando Quirós*  
*U. Autónoma de Madrid, Chile*

has presented the Invited Speakers

*"Logarithmic corrections in Fisher-KPP problems for the Porous Medium Equation"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

Julian Fernández Bonder



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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Sabrina Roscani*

*CONICET - Univ. Austral. Argentina*

has presented the Short Communications

*"Two different fractional Stefan problems which are convergent to the same classical Stefan problem"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

Julian Fernández Bonder



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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Julio Rossi*

*Universidad de Buenos Aires, Argentina*

has presented the Invited Speakers

*"Games for PDEs with eigenvalues of the Hessian"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Ariel Salort*

*UBA CONICET, Argentina*

has presented the Contributed talks

*"On fractional Cheeger's inequality"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

Julian Fernández Bonder



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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Henrik Shahgholian*

*The Royal Institute of Technology, Stockholm*

has presented the Invited Speakers

*"Multi-junction and corners in fb problems"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

Julian Fernández Bonder



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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Analia Silva*  
*unslimast, Argentina*

has presented the Short Communications

*"The concentration compactness principle for  $p$ -Fractional Laplacian in unbounded domains and its applications"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

Julian Fernández Bonder



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In honor to Prof. Noemí Wolanski

We certify that

*Mariana Smit Vega*

*University of Washington, U.S.A*

has presented the Contributed talks

*"The singular free boundary in the Signorini problem"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

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In honor to Prof. Noemí Wolanski

We certify that

*Domingo Tarzia*

*CONICET - Univ. Austral, Argentina*

has presented the Contributed talks

*"A Non-classical Heat Conduction Problem with a Source Depending of the Total Heat Flux on the Boundary"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

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In honor to Prof. Noemí Wolanski

We certify that

*Eduardo Teixeira*

*University of Central Florida, USA*

has presented the Invited Speakers

*"Free boundary problems in complex materials"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

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# V INTERNATIONAL SYMPOSIUM ON NONLINEAR PDES & FREE BOUNDARY PROBLEMS

Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Joana Terra*

*F.A.M.A.F., Argentina*

has presented the Invited Speakers

*"An Aubin-Lions type compactness result"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Federico Tournier*

has presented the Short Communications

*"Regularity Results For The Near Field Refractor Problem"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

Julian Fernández Bonder



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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Herman Vivas*

has presented the Short Communications

*"The Two Membranes Problem For Fully Nonlinear Operators"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

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In honor to Prof. Noemí Wolanski

We certify that

*Miguel Yangari*

*Escuela Politécnica Nacional.*

has presented the Short Communications

*"Existence and Uniqueness for Parabolic Problems with Caputo Time Derivative"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Julio Abalos*

has presented the Poster

*"A necessary condition for strong hyperbolicity of general first order systems"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Sonia Acinas*

has presented the Poster

*"Periodic solutions of Euler-Lagrange equations in an anisotropic Orlicz-Sobolev space setting"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

Julian Fernández Bonder





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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Carlos Alliera*

has presented the Poster

*"Control de la ecuación diferencial de Gompertz"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Corina Averbuaj*

has presented the Poster

*"Endogenous growth economic model with delay in the control variable. Dynamic programming approach"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Rocio Balderrama*  
*U.B.A. Argentina*

has presented the Poster

*"On fixed point theorems in partially ordered Banach spaces and applications"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Roberto Ben*

has presented the Poster

*"Breathers and Variational Approximations for a Nonlocal NLS Equation"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Pablo Blanc*  
*CONICET, Argentina*

has presented the Poster

*"A lower bound for the principal eigenvalue of fully nonlinear elliptic operators"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Julieta Bollati*

has presented the Poster

*"Mathematical model for acid water neutralization with anomalous and fast diffusion"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Natali Cantixano*

has presented the Poster

*"Multiplicidad de Soluciones para el Laplaciano Fraccionario"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Giane Casari-Rampasso*

has presented the Poster

*"A priori estimates for viscosity solutions of fully nonlinear parabolic equations"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Alberto Deboli*

has presented the Poster

*"Necessary and sufficient conditions for the existence of positive  $(c\omega)$ -periodic solutions of a Nicholson type delay system"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Maria Espindola*

has presented the Poster

*"The Linearization of the Schrödinger Equation"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Juan Espinosa*

has presented the Poster

*"Modelado numérico de Tsunamis en Venezuela. Caso: Macuto"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Javier Etcheverry*

has presented the Poster

*"Nonlinear PDEs in applied electromagnetism"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Demian Goos*

has presented the Poster

*"On the nonlinear nature of homogeneous PDEs of fractional order"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

Julian Fernández Bonder



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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Griselda Stovrich*

has presented the Poster

*"Global stability analysis of a second order delay differential equation"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

Julian Fernández Bonder



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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Carolina Rey*

*CONICET, Argentina*

has presented the Poster

*“Ecuación elíptica con exponente crítico en una región de  $S^3$  invariante por la acción de  $T^2$ ”*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Antonella Ritorto*  
*U.B.A. Argentina*

has presented the Poster

*"A Nonlocal Optimal Partition Problem"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Alexis Rodríguez Carranza*

has presented the Poster

*"Simultaneous exact controllability of wave sound propagations in multilayer media"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Mauro Rodríguez Cartabia*

*U.B.A. Argentina*

has presented the Poster

*"A Game Theory Model For Wealth Distribution"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires  
Argentina, December 18–21, 2017.

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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Andrei Rodríguez*

has presented the Poster

*“Loss of boundary conditions for two classes of nonlinear parabolic equations with dominating gradient terms: (second-order) fully nonlinear and fractional cases”*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Marcelo Rubio*

has presented the Poster

*"The initial value problem of Force-free Electrodynamics in Euler Potentials"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Cristian Scarola*

has presented the Poster

*"Inverse Problem For Energy Dependent Potentials"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

Julian Fernández Bonder



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Buenos Aires, Argentina - December 18th-21th, 2017

In honor to Prof. Noemí Wolanski

We certify that

*Elder Varas Perez*

has presented the Poster

*"Energy cascade in turbulent flows using the sabra shell mode"*

in V International Symposium on Nonlinear PDEs and Free Boundary Problems held in Buenos Aires Argentina, December 18–21, 2017.

Julian Fernández Bonder