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MINISTERIO DE ECONOMÍA Y COMPETITIVIDAD



CONSEJERÍA DE ECONOMÍA, INNOVACIÓN, CIENCIA Y EMPLEO

<http://www.mineco.gob.es> (<http://www.juntadeandalucia.es/index.html>)

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Program

- Tuesday 6th June-

Room*

9:30-09:50	Registration at the Patio of IAA		
09:50-10:00	Welcome	Rafael Garrido	A
Session I chairman: Sebastiano de Franciscis			
10:30-11:00	<u>Rationale & Open questions in ultra-precise time series observations (http://tmw.iaa.es/abstractRG)</u>	Rafael Garrido	A
11:00-11:30	<u>Connectivities: definition + application to stellar light curves (http://tmw.iaa.es/abstractJP)</u>	Javier Pascual-Granado	A
11:30-12:00	Coffee break		
12:00-12:20	<u>Application of connectivities to LIGO and SETI data (http://tmw.iaa.es/abstractLVM)</u>	Lourdes Verdes-Montenegro	A
12:20-13:30	<u>The Arrow of Time and the Continuum Hypothesis (http://tmw.iaa.es/abstractJS1)</u>	Jeffrey D. Scargle	A
13:30-15:00	Lunch at IAA		
15:00-15:40	<u>Application of Connectivities to Determining the Arrow of Time (http://tmw.iaa.es/abstractJS2)</u>	Jeffrey D. Scargle	A
Open discussion & Coffee break			
15:40-17:00	<ul style="list-style-type: none"> Can we say anything about the analyticity of the underlying process of an event? Would it be valid to model a non-analytical process as function of time What are the implications of all these questions for classical Fourier techniques, expansions in other basis functions, and for time-domain models? 	A	
Dinner			
20:00	Restaurante Carmen Verde Luna		
http://carmenverdeluna.com/ (http://carmenverdeluna.com/)			

- Wednesday 7th June -

Session II chairman: Juan Carlos Suárez

10:00-10:45	<u>Mandelbrot and Time (http://tmw.iaa.es/abstractNW)</u>	Nicholas Watkins	A
10:45-11:30	<u>Fractals, self-similarity on astro time series (http://tmw.iaa.es/abstractSF)</u>	Sebastiano de Franciscis	A
11:30-12:00	<i>Coffee Break & Photo Group</i>		
12:00-12:45	<u>Self-Organization to criticality. A paradigm for complexity? (http://tmw.iaa.es/abstractMAM)</u>	Miguel Angel Muñoz	A
12:45-13:30	<u>Synchronization, spatio-temporal coherence and causality in space and laboratory plasmas (http://tmw.iaa.es/abstractSC)</u>	Sandra Chapman	A
13:30-15:00	<i>Lunch at IAA</i>		
15:00-16:00	<u>Complex Systems and Networks (http://tmw.iaa.es/abstractSJ)</u>	Samuel Johnson	A
16:00-16:30	<i>Coffee break</i>		
Open discussion			
16:30-17:30	<ul style="list-style-type: none"> • <i>Could we establish mathematical/physical relationships between chaotic and fractal behaviours in time series?</i> • <i>Could the differences between fractals and chaos in terms of analyticity be used to understand the residuals of the fitting of stellar light curves?</i> 		A

- Thursday 8th June -

- Free Morning -

12:30-13:30	<u>Public talk – Colloquium's Director. The Dynamic Universe: Adventures in Time Series Analysis (http://tmw.iaa.es/abstractJS3)</u>	Jeffrey D. Scargle	B
13:30-15:00	<i>Lunch at IAA</i>		
<u>Session III</u> chairman: Javier Pascual-Granado			
15:00-16:00	General discussion - Mathematics Hands-On Activities		A
16:00-16:30	<i>Coffee break</i>		
16:30-17:30	General discussion - Concluding Remarks		A

*Rooms:

A: Sala de Juntas Edificio A

B: Salón de Actos

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