

<b>Department: Mathematics and Computing</b>
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**Group name:** *Group of Iterative Processes and Nonlinear Equations.*

**Acronym:** *PRIENOL*

**Group Coordinator:** Hernández Verón, Miguel Ángel

**ANEP Area(s):** Mathematics

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**Department Report:** 20/12/2004

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**RESEARCH TEAM**
**Number of researchers: 6**

<u>Researcher</u>	<u>Department</u>	<u>Professional category</u>
Hernandez Veron, Miguel Angel	Mathematics and Computing	FP
Ezquerro Fernández, José Antonio	Mathematics and Computing	FP
Gutiérrez Jiménez, José Manuel	Mathematics and Computing	TP
Magreñán Ruiz, Ángel Alberto	Mathematics and Computing	Interim Contract
Romero Álvarez, Natalia	Mathematics and Computing	TP
Rubio Crespo, María Jesús	Mathematics and Computing	Doctor on Contract

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**COLLABORATORS**
**Nº of collaborators: 0**

<u>Collaborators</u>	<u>Department</u>	<u>Professional category</u>
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### Lines of research

Solving nonlinear equations in Banach spaces by iterative processes.  
Analysis of the convergence of iterative processes.  
Convergence orders in iterative processes.  
Dynamic behaviour of iterative processes.  
Iterative multipoint processes.  
Iterative methods for solving nonlinear integral equations  
Non-linear optimisation problems.

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### Scientific and technological offer

Design and study of models for non-linear systems.  
Development of numerical algorithms for the study of real models.

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### National and international relations

Paul Sabatier University of Toulouse, France. Departement de Mathematiques (Jean Claude Yakoubshon).  
University of Cameron, USA (Oklahoma) Department of Mathematical Sciences. (Ioannis K. Argyros).  
University of Maryland, USA (F.A. Potra).  
University of Bergen, Norway. Department of Computer Science (Trond Steinaug).  
University of Lodz, Poland. Department of Numerical Methods (Marek Smietanski).  
Faculty of Sciences, National Polytechnic School, Quito, Ecuador (Daniel González Sánchez).  
Autonomous University of Santo Domingo (Manuel Aurelio Diloné Alvarado).  
Technological Institute of Santo Domingo (Martín García Olivo and María Penkova Vasileva).