

# SEMINARIO

**Charles R. Johnson**  
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*“The Nonnegative Inverse Eigenvalue Problem,  
with Emphasis on Similarity”*

**Abstract:** The NIEP asks which collections of  $n$  complex numbers, including multiplicities, are the spectra of entry-wise nonnegative matrices. There are variants such as the real NIEP and the symmetric NIEP, but these constitute some of the hardest problems in matrix analysis. After reviewing some background on the problem, we describe an approach that emphasizes the polyhedron associated with a particular similarity matrix.

**Aula 002 de la E. T. S. de Ingeniería Informática**  
**Viernes 9 de Octubre de 2015 a las 13:00**

**Organiza:** Grupo de Investigación SINGACOM.

