

SEMINARIO

OPTIMIZACION Y EQUILIBRIO

Expositor

David Salas

Universite de Montpellier

Title

"Smoothness of the Metric Projection onto Nonconvex Bodies in Hilbert Spaces"

Abstract:

"Based on a fundamental work of R. B. Holmes from 1973, we study differentiability properties of the metric projection onto prox-regular sets. We show that if the set is a nonconvex body with a C^{p+1} -smooth boundary, then the projection is C^p -smooth near suitable open truncated normal rays, which are determined only by the function of prox-regularity. A local version of the same result is established as well, namely, when the smoothness of the boundary and the prox-regularity of the set are assumed only near a fixed point."

Miércoles 23 de Diciembre del 2015 a las 16:30 hrs. En la Sala de Seminarios John Von Neumann CMM., Séptimo Piso, Torre Norte, Beauchef 851.

