Instituto de
Matemática
Interdisciplinar

# COLLOQUIUM DE ANÁLISIS MATEMÁTICO

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# Norming subspaces of Banach spaces

*We show that, if X is a closed subspace of a Banach space E and Z is a closed subspace of E\* such that Z is norming for X and X is total over Z (as well as X is norming for Z and Z is total over X), then X and the pre-annihilator of Z are complemented in E whenever Z is weakly star closed or X is reflexive. This talk is based on joint works with S. Lajara, S. Troyanski and C. Zanco..*

**Fecha: Jueves 21 de junio de 2018**
**Hora: 13:00 horas**
**Lugar: Aula 222**
**Facultad de CC Matemáticas, UCM**