Atelier « Sous-espaces invariants pour l'opérateur shift » 26-30 août 2013

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Weak L^1 and weak H^1

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We give a survey of some of the aspects of weak L^p spaces in \mathbb{R}^n and the topologies on them. We review the significant results of Hunt, Fefferman, Cwikel and Aleksandrov on the spaces of interest. Using the definition of Weak H^1 on the unit disc introduced by Aleksandrov and a subspace H_0^1 we discuss some inclusions and properties of a subspace of the dual of H_0^1 and some examples.

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