INFORME TECNICO INTERNO

Nº 31

INSTITUTO DE MATEMATICA DE BAHIA BLANCA

INMABB (UNS - CONICET)

INSTITUTO DE MATEMATICA-BAHIA BLANCA

(INMABB)-UNS-CONICET

INFORME TECNICO N°31

B I B L I O G R A F I A   S O B R E

" F U N C I O N E S   D E   O S C I L A C I O N   M E D I A

A C O T A D A   Y   A P L I C A C I O N E S "

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P o r

E D G A R D O   L .   F E R N A N D E Z   S T A C C O

Departamento de Matemática
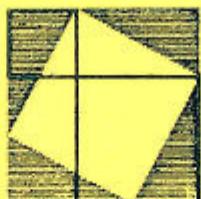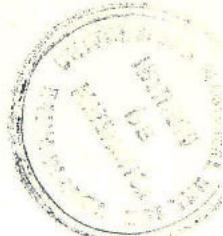
Universidad Nacional del Sur

Bahía Blanca, Diciembre 1991

I. INTRODUCCION.

Las funciones de oscilación media acotada (BMO) aparecen por primera vez en el trabajo de F. John y L. Nirenberg: "On functions of bounded mean oscillation" en 1961.

Una función f localmente integrable en R^n pertenece al espacio BMO si

$$\frac{1}{|Q|} \int_Q \left| f(x) - \frac{1}{|Q|} \int_Q f(x)dx \right| dx \leqslant K$$

para todo cubo $Q \subset R^n$ y cierta constante K.

Si $f_Q = \fint_Q f(x)dx = \frac{1}{|Q|} \int_Q f(x)dx$, con $|Q| = \int_Q dx$, se define una norma en el espacio de las funciones BMO modulo constantes mediante:

$$\| f \| = \sup_{Q \subset R^n} \fint_Q | f(x) - f_Q | dx.$$

Con ésta norma, BMO/R es un espacio de Banach.

Lennart Carleson en su trabajo: "BMO-10 years' development" (1981) contiene una excelente puesta al día sobre el tema. Carleson considera que el desarrollo de la teoría cobró un impulso inusitado a partir de la publicación del trabajo de Charles Fefferman "Characterizations of bounded mean oscillation", (1971), de allí el título de su publicación.

Hay muchas aplicaciones. La primera fué a un trabajo de F. John: "Rotation and strain", publicado en el mismo Comm. Pure Appl. Math. 14 (1961), 319-413, curiosamente antes que el de F. John-L. Nirenberg mencionado (págs. 415-426), y luego en un trabajo de J. Moser (1961), en la misma revista (págs. 577-591).

Otras aplicaciones tienen relación con operadores integrales singulares, espacios de interpolación, en la teoría de aplicaciones cuasiconformes, en teoría de martingalas y en Análisis Complejo.

Son recomendables los trabajos de L. Carleson (1981), Chang-Fefferman (1985), Reiman, H. M.-Rychner T. (1975), H. M. Rychner (1974), P. W. Jones (1980), A. Garsia, (1974), R. Durret, (1984), A. Torchinsky (1986).

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