İSTANBUL ANALYSIS SEMINARS

BOUNDARY MULTIPLIERS OF A FAMILY OF MÖBIUS INVARIANT FUNCTION SPACES

Guanlong BAO

Shantou University, China
Department of Mathematics
&
Sabancı University *(visiting)*
Faculty of Engineering and Natural Sciences

Abstract: In this talk, for $1 < p < \infty$ and $0 < s < 1$, we consider the function spaces $\mathcal{Q}_s^p(\mathbb{T})$ that appear naturally as the space of boundary values of a certain family of analytic Möbius invariant function spaces on the unit disk. We give a complete description of the pointwise multipliers going from $\mathcal{Q}_s^{p_1}(\mathbb{T})$ to $\mathcal{Q}_r^{p_2}(\mathbb{T})$ for all ranges of $1 < p_1, p_2 < \infty$ and $0 < s, r < 1$. The spectra of such multiplication operators are also obtained. In particular, our main result includes a conjecture of J. Xiao in 2000. The talk is based on a joint work with J. Pau from University of Barcelona.

Date:	February 5, 2016
Time:	15:40
Place:	Sabancı University, Karaköy Communication Center
	Bankalar Caddesi 2, Karaköy 34420, İstanbul