

CARLSON'S FORMULA ON THE BOUNDARY OF THE HALF-PLANE

Florencia Marchesano

IMaS (UBA-CONICET) - Depto. de Matemática, Facultad de Cs. Exactas y Naturales, UBA, Argentina
florenciamarchesano1@gmail.com

A classic result due to Fritz Carlson (1922) relates the quadratic sum of the coefficients of a bounded Dirichlet series in a half-plane to its integral means on vertical lines within that half-plane. In 2004, Hedenmalm, revisiting Carlson's ideas, posed a natural question: can this formula be extended to the boundary of the half-plane? In 2007, Saksman and Seip provided a counterexample, thereby answering Hedenmalm's question in the negative. In this talk, we analyze some additional hypotheses on the frequencies and coefficients of a series that guarantee the validity of Carlson's formula on the boundary of the half-plane.

Trabajo en conjunto con Daniel Carando (Universidad de Buenos Aires - CONICET).