

# Transference Techniques in Harmonic Analysis

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In this talk, we will present an overview of the general transference principle, a powerful tool that allows one to deduce the boundedness of convolution operators on  $L^p(G)$  from their behavior on  $L^p(X)$ , under appropriate structural relationships between the group  $G$  and the space  $L^p(X)$ . We will also explore analogous transference phenomena for bilinear operators, highlighting key developments in this direction. If time permits, we will briefly touch upon recent progress concerning transference for completely bounded operators. This is intended as a survey talk, drawing upon results and techniques developed over the past two decades.