

# WEBINAR

## Grupo de Análise Funcional e Aplicações Functional Analysis and Applications Group

### A new convolution and product theorem for the offset linear canonical transform

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#### Abstract

The offset linear canonical transform (OLCT) is a time-shifted and frequency modulated version of the linear canonical transform. OLCT has been used in different areas including signal processing and optics. In this seminar, motivated by Operator Theory, we propose a new convolution operator and derive a corresponding product theorem associated with OLCT. Some properties of this convolution and applications to solve integral equations are also considered.

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