

# Integrability of derived complex spaces

*jeudi 28 octobre 2021 14:00 (50 minutes)*

Since the Newlander-Nirenberg integrability theorem in 1957, the description of complex manifolds through integrable almost complex structures provided many far reaching applications ranging from deformation theory to Hodge theory for example. With the rise of derived geometry during the last decade, and more recently of derived analytic geometry, comes naturally the following question: is there a fully homotopy coherent analogue of this integrability notion suitable for derived complex objects? We will explore this question through an approach inspired by operad theory. This is joint work in progress with Joan Millès.

**Orateur:** YALIN, Sinan