

**Eric Ricard** (Paris 6):

*Hilbertian Operator spaces with few completely bounded maps*

*Abstract:* We construct several examples of Hilbertian operator spaces with few completely bounded maps. In particular, we give an example of a separable 1-Hilbertian operator space  $X_0$  such that, whenever  $X'$  is an infinite dimensional quotient of  $X_0$ ,  $X$  is a subspace of  $X'$ , and  $T : X \rightarrow X'$  is a completely bounded map, then  $T = \lambda I_X + S$ , where  $S$  is a compact Hilbert-Schmidt operator. Moreover, every infinite dimensional quotient of a subspace of  $X_0$  fails the operator approximation property. We also show that every Banach space can be equipped with an operator space structure without the operator approximation property. (Joint work with T. Oikhberg)