

Eva-Maria Hekkelman: DOIs & MOIs: pourquoi?

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Double Operator Integrals and Multiple Operator Integrals have a reputation of being quite technical objects of study in Functional Analysis, but in fact they appear in many places in noncommutative geometry. In this first part of the mini-course on MOIs I'll show the natural ways they arise, and explain two ways of constructing them. We will see that this gives us a handy tool for toying around with functional calculus and perturbations.