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"From a euclidian space to Cartan geometries: how to rebuild differential operator from their principal symbol?"

Abstract: The space of differential operators acting between spaces of sections of natural bundles is a filtered representation of the Lie algebra of vector fields in a natural way. Since about ten years, the relations between that module and the associated graded modules are studied. The purpose of the talk is to give an account of the obtained results, of the methods used to get them and of the perspective left open in that field.