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Vector-valued Poincaré series on G/K

In the presence of an action of a discrete group on a symmetric space, Poincaré series may be used in different ways: for example, to construct eigenfunctions of the Laplacian. I will present recent results on Poincaré series that are holomorphic vector-valued automorphic forms on the unit ball (or, more generally, on a bounded symmetric domain) and will discuss related analytic questions.