

BGG sequences

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Abstract:

For any finite-dimensional representation V of a semisimple Lie group G and a parabolic subgroup P of G , Čap, Slovák and Souček constructed a sequence of invariant differential operators for any parabolic geometry of type (G, P) . In the case of the homogeneous model G/P of such a geometry, the sequence associated to V is a complex, which is related to the generalised Bernstein–Gelfand–Gelfand resolution of V . Their construction was later improved by Calderbank and Diemer. The aim of this talk is to explain these constructions.