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The Busemann-Petty Problem with the Generalized Axial Symmetry.

I am planning to discuss different aspects of the Busemann-Petty problem on sections of convex bodies in the case, when bodies under consideration are invariant under the subgroup of rotations preserving coordinate subspaces of fixed dimension. The consideration includes spherical Radon transforms, i -intersection bodies, functions on Grassmannians, and positive definite distributions with this invariance property.