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Projective Invariance and Killing Fields

The infinitesimal symmetries on a Riemannian manifold satisfy the Killing equation: $\nabla_a v_b = 0$. This equation sees only the projective geometry of the underlying metric, *i.e.*, the geometry of the unparameterised geodesics. I shall explain what this means, its consequences, and how this observation generalises to other Killing equations.