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Firas Y Hindeleh* (hindelef@gvsu.edu), 1 Campus Dr., Allendale, MI 49401, and **Gerard Thompson** (gerard.thompson@utoledo.edu), 2801 W Bancroft St, Toledo, OH 43606. *Killing's equations for invariant metrics on Lie groups.*

We investigate symmetry and curvature properties of a right-invariant metric on a Lie group. This talk will consider Lie groups in dimension two and three and will focus on the solutions of Killing's equations. A striking result is that several of the three-dimensional Lie groups turn out to be spaces of constant curvature. (Received September 13, 2010)