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**Jonathan Epstein\*** (jepstein@math.ou.edu). *When does a solvable Lie group fail to admit a maximally symmetric metric?* Preliminary report.

The existence of maximally symmetric left-invariant metrics on a Lie group has strong connections to the existence of distinguished metrics, e.g. Ricci soliton and Einstein. After recalling the definition of a maximally symmetric metric and some known results about their existence, we will discuss conditions under which a solvable Lie group fails to admit such metrics. (Received September 25, 2017)