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Hiroshi Tamaru* (tamaru@sci.osaka-cu.ac.jp), Department of Mathematics, Osaka City University, Osaka, 585-8585, Japan. *Left-invariant metrics and submanifold geometry of noncompact symmetric spaces.*

For a left-invariant Riemannian metric on a given Lie group, we can construct a submanifold, where the ambient space is a noncompact Riemannian symmetric space consisting of all left-invariant metrics on that Lie group. We expect that nice left-invariant metrics (such as Einstein or Ricci soliton) are corresponding to nice submanifolds. In this talk, we introduce our framework, and mention some results related to such correspondence. (Received September 14, 2019)