1026-52-211   **Eric L. Grinberg*** (`grinberg@Unh.edu`), Department of Mathematics & Statistics, University of New Hampshire, Durham, NH 03824. *Geometric Inequalities for Bounded Symmetric Domains.* Preliminary report.

We discuss volume formulas and related geometric inequalities for bounded hermitian symmetric domains. These domains have been studied by Siegel, Cartan, Harish-Chandra and others. They are typically studied in the context of functions of several complex variables. Here the goal is to distinguish each domains by means of a geometric (or integral geometric) inequality. (Received February 27, 2007)