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Le Donne**. *Toward a quasi-Möbius characterization of invertible homogeneous metric  
spaces*. Preliminary report.

In this talk we discuss a new characterization of snowflakes of boundaries of rank-one symmetric spaces of non-compact type. This characterization is provided in terms of isometric homogeneity and invertibility properties. We also present results about the metric geometry of spaces that enjoy both homogeneity with respect to uniformly bi-Lipschitz maps and a certain form of quasi-invertibility. These results are motivated by a desire to characterize snowflakes of boundaries of rank-one symmetric spaces up to bi-Lipschitz equivalence. Time permitting, we will briefly mention analogous results pertaining to disconnected spaces. (Received January 16, 2019)