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Zair Ibragimov*, 800 N. State College Blvd, 154 McCarthy Hall, Fullerton, CA 92831. *A Möbius invariant Cassinian metric.*

We discuss a new Möbius invariant, δ -hyperbolic metric τ_D , called Möbius invariant Cassinian metric, for domains D in $\overline{\mathbb{R}^n}$, which can be considered as a Möbius invariant analogue of the scale-invariant Cassinian metric $\tilde{\tau}_D$ recently introduced by the author. We discuss basic properties of τ_D including its connections $\tilde{\tau}_D$, Seittenranta's metric and the hyperbolic metric. We show that τ_D is monotonic with respect to domains, its density is the same as the density of Ferrand's metric and that the τ_D -isometries of twice-punctured spaces are Möbius maps. (Received September 07, 2016)