



Figure 1: A demonstration of the embedding giving rise to the pseduo-metric: All points for which  $\delta_i(x) = \text{false}$  are mapped to the same point. Points for which  $\delta_i(x) = \text{true}$  are mapped to a semicircle. This embedding gives a constant distance between pairs of points which have differing values of  $\delta$ . The parameter  $\rho$  determines how much distance there is along the arc.