

THE E. STUDY MAPS OF CIRCLES ON DUAL HYPERBOLIC AND
LORENTZIAN UNIT SPHERES H_0^2 AND S_1^2

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ABSTRACT

H.H. Hacısalihoğlu ('Study map of a circle', *Journal of the Faculty of Science of Karadeniz Technical University* **1** (7) (1977), 69–80) shows that the E. Study map of a circle on a dual unit sphere S^2 is a family of hyperboloids of one sheet with two parameters. In this paper we calculate and discuss the E. Study maps of circles which lie on the dual hyperbolic and Lorentzian unit spheres H_0^2 and S_1^2 at the dual Lorentzian space D_1^3 . Furthermore, we examine some special cases, each of which is a geometrical result.