WINTGEN INEQUALITY FOR STATISTICAL SURFACES

MUHITTIN EVREN AYDIN AND ION MIHAI

Abstract. The Wintgen inequality (1979) is a sharp geometric inequality for surfaces in the 4-dimensional Euclidean space involving the Gauss curvature (intrinsic invariant) and the normal curvature and squared mean curvature (extrinsic invariants), respectively. In the present paper we obtain a Wintgen inequality for statistical surfaces.


Keywords and phrases: Wintgen inequality, statistical manifold, statistical surface, dual connections.

REFERENCES