ONE INEQUALITY FOR CONFORMAL MAPPINGS OF SPHERICAL DOMAINS

LUDMILA BOURCHTEIN AND ANDREI BOURCHTEIN

Abstract. We provide an evaluation of variations of the mapping factor for conic mappings from a sphere to a plane. The proved inequality allows to compare the variation coefficients of conic, cylindrical and stereographic projections. Obtained inequality chain for variation coefficients can be used to generate more computationally efficient numerical grids.

Key words and phrases: function inequalities, conformal mappings, grid generation.

REFERENCES