Department of applied mathematics and computer science & IT4Innovations Studentská 1768, Ostrava-Poruba



INVITATION TO THE LECTURE

March 3, 2019 12:30 Room 213

PIOLA TRANSFORMATION: A BRIEF INTRODUCTION

Tomáš Luber

Institute of Geonics of the Czech Academy of Sciences, Ostrava

Piola transformation is a mapping used to transform certain classes of finite elements, typically those discretizing H(div) space. The aim of this talk is to give a quick review of the general framework of differential forms, in which Piola transformation is natural. This framework also offers a new insight into constructions of finite elements.