



Pós-Graduação em Modelagem Computacional em Ciência e
Tecnologia

Seminário de Pesquisa

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Universidade
Federal
Fluminense

Applications of Singularities in Medical Imaging

Professor Dr. Peter Petrov

Abstract. In this talk I will introduce the singularities of maps of a smooth surface to a plane, and the Whitney's classification of stable singularities. They will be connected with the interpretation of signs in radiology, and the formalism of controlled mappings. Then some applications of singularities to medical imaging in the spirit of Thom's catastrophe theory will be described.

Keywords: Stable Singularities, Normal Form, Tangent Space, Whitney Theorem, Projection on a Plane.

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