

**Seminar of the Chair of Optimization and Control  
under prof. S. Migórski  
winter semester 2016-2017, Thursday  
10:15 - 11:45, room 1177**

**October 6, 2016**

Professor Stanislaw Migorski, Introduction.

**October 13, 2016**

Liliana Klimczak, Nieliniowe zagadnienia Neumanna dla operatorów typu p-Laplace'a, main result of PhD thesis.

**October 20, 2016**

Leszek Gasinski, Multiple solutions for  $(p,2)$ -equations with resonance and concave terms.

**October 27, 2016**

Krzysztof Byrski, Wprowadzenie do modelu oświetlenia opartego na mikrościankach oraz jego uogólnienie na szorstkie powierzchnie z refrakcją, I.

**November 3, 2016**

Mikołaj Sacha, Banach Contraction Principle with Applications.

**November 10, 2016**

Krzysztof Byrski, Wprowadzenie do modelu oświetlenia opartego na mikrościankach oraz jego uogólnienie na szorstkie powierzchnie z refrakcją, II.

**November 14, 2016, additional meeting, 12:15-13:15, room 1177**

Guillaume Olive, Institut de Mathématiques de Bordeaux, "Stabilization and controllability of an integro-differential transport equation". In this talk we study the stabilization and controllability properties of a linear integro-differential transport equation. For this equation we prove that these properties are both equivalent to the so-called Fattorini criterion. The proof relies on a Fredholm transformation that maps the original system into a finite-time stable target system. The Fattorini criterion is used to prove the invertibility of such a transformation. Finally, we discuss several particular examples. This is a joint work with Jean-Michel Coron and Long Hu.

**November 17, 2016**

Damian Goworko, Controllability and observability.

**November 24, 2016**

Oleksiv Volodymyr, Unconstrained Optimization.

**December 1, 2016**

Dariusz Paczka, Zastosowanie nierówności hemiwariacyjnych w przestrzeniach Orlicza-Sobolewa do modelowania stacjonarnego przepływu niescisliwych płynów newtonowskich.

**December 8, 2016**

Joanna Kanas, One Dimensional Search Methods.

**December 15, 2016**

Michał Kimak, Newton Method with Applications, I.

**January 5, 2017**

Michał Kimak, Newton Method with Applications, II.

**January 12, 2017**

Piotr Gamorski (PŁ), "Nierówności hemiwariacyjne w modelowaniu problemu Signoriniego z efektem piezoelektrycznym".

**January 19, 2017**

Stanisław Szufa, On HIV Models, preliminary report on MSc thesis.