Mathematical Institute
Polish Academy of Sciences

COURSE DESCRIPTION.

Course name	„SMUGA" – Young Minds of Algebraic Geometry
Course type	research seminar (sd)
Supervisor	Dr Weronika Buczyńska, Dr Jarosław Buczyński
ECTS credit allocation	1 – IM PAN Ph. D. program; 3 recommended for MA programs
Duration	One semester
Number of hours	30
Language	English
Prerequisites	Algebraic geometry
Course content	SMUGA is a weekly working seminar in algebraic geometry running in Warsaw. It is intended for students of Master program, PhD students, postdocs and professors interested in algebraic geometry. The purpose of the seminar is to understand in detail a very specific problem, subject, article, or series of related articles. These topics need not to be related to participants' own research, but might be useful for them as a general tool. Typically, three to five distinct topics are studied each year. Each participant is allowed to suggest a topic for the seminar, perhaps for future.
Recommended reading	Any textbook in algebraic geometry, for instance: R. Hartshorne „Algebraic Geometry". Moreover, a reading specific to the subject on the seminar is announced every year.
Learning outcomes	For each of the topics that are discussed during the seminar, the student: 1. is familiar with the fundamental notions of the topic; 2. is able to formulate the main statements and sketch the ideas of the proofs; 3. identifies the major problem in the topic; 4. is aware of related technical issues; Moreover, the student is able to present in a clear manner an algebro-geometric problem, which is not directly related to her/his own research. The presentation must contain both an overview, and all technical details.
Assessment methods and criteria	Regular, active participation in the seminar, including presenting a talk at least once per semester

Remarks	The web-page of SMUGA is linked from here: http://www.mimuw.edu.pl/~jabu/teaching/index.html