**Institute of Mathematics**
**Polish Academy of Sciences**

# COURSE DESCRIPTION

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| Course name | Asymptotic Statistics |
| Course Type | research seminar |
| Supervisors | Teresa Ledwina |
| ECTS credit allocation | 1 – IM PAN Ph. D. program;  3 recommended for MA programs |
| Duration | One semester |
| Number of hours | 30 |
| Language | English or Polish, if every participant speaks Polish |
| Prerequisites | Probability Theory, Mathematical Statistics |
| Course content | The latest results in the theory of testing statistical hypotheses and methods of model selection, together with applications, will be presented and discussed. |
| Recommended reading | A. W. van der Vaart (1998), Asymptotic Statistics, Cambridge University Press. |
| Learning outcomes | Participants will learn selected problems and different approaches to their solution. They will also learn how to compare different methods and will study some open questions. |
| Assessment methods and criteria | On the basis of presentations of appropriate  papers or the student's results and activity during the seminar. |
| Remarks | |