



MATEMATIČNI KOLOKVIJI

Za razumevanje predavanj je dobrodošlo znanje diplomiranega matematika ali študenta višjih letnikov matematike.



VABILO

V **sredo, 22. marca 2023, ob 17:15**

smo pripravili v **predavalnici 2.02**

Fakultete za matematiko in fiziko Univerze v Ljubljani

na **Jadranski ulici 21 v Ljubljani**

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The p -ellipticity condition

The notion of an elliptic operator is among the central ones in the theory of PDEs. While often the operators in question are assumed to admit *real* coefficients, at least since the fundamental work by T. Kato in 1950s there has been great interest in operators with *complex* coefficients, as well. It has been long known that their properties substantially differ from those of their real counterparts, but until recently this difference was not well understood.

In a 2016 preprint, A. Carbonaro and the lecturer introduced a concept named *p-ellipticity*, of which the classical ellipticity is the special case $p = 2$. They proved a number of properties pertaining to elliptic operators with complex coefficients, with *p-ellipticity* featuring as the key assumption.

In this talk we discuss the genesis of this concept and present some examples, including those outside the framework of elliptic PDEs.

Ljubitelji matematike vljudno vabljeni!

Matematične kolokvije prireja Društvo matematikov, fizikov in astronomov Slovenije v sodelovanju z Inštitutom za matematiko, fiziko in mehaniko v Ljubljani, Oddelkom za matematiko in mehaniko Fakultete za matematiko in fiziko Univerze v Ljubljani ter Komisijo za tisk, DMFA - založništvo. Kolokvije vodi PRIMOŽ MORAVEC. Dodatne informacije so na strani:

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