

WYDZIAŁ NAUK ŚCISŁYCH  
I PRZYRODNICZYCH  
Instytut Matematyki

Zaprasza na wykład pod tytułem:

ON THE EXTENSION OF  
VALUATION RINGS

który wygłosi:

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ABSTRACT:

The main goal of this talk is to present some properties of an extension of valuations from classical invariants. More specifically, we consider a valued field  $(K, \nu)$  and an extension  $\omega$  of  $\nu$  to a finite extension  $L$  of  $K$ . Then we study when the valuation ring of  $\omega$  is essentially finitely generated over the valuation ring of  $\nu$ . We present a necessary condition in terms of classic invariants of the extension and show that in some particular cases, this condition is also sufficient. We also discuss when the corresponding extension of graded algebras is finitely generated. For this problem we present an equivalent condition (which is weaker than the one for the finite generation of the valuation rings).

This is a joint work with Steven Dale Cutkosky.

Wykład odbędzie się **16 grudnia 2019 r.** (poniedziałek)  
o godz. **14.00** w sali 212  
w budynku Wydziału Matematyczno – Fizycznego.