



**ÚSTAV INFORMATIKY**  
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## **SEMINÁR ÚI SAV,**

**ktorý sa bude konať v utorok 11.4.2017 o 9.30 hod.  
v zasadačke č. 102**

**Program:**

**Mgr. Marek Košta, PhD.**

**Title:**

**Better Answers to Real Questions**

**Abstract:**

In this talk I consider existential problems over the real numbers. I first explain how to compute answers along with quantifier-free equivalents using extended quantifier elimination. Answers in this context are descriptions of possible assignments for the existentially quantified variables. Afterwards I make clear that such answers can contain infinitesimal symbols and why this happens. Then I will explain our novel post-processing method for eliminating infinitesimal symbols from answers. Finally, I show on a few examples how the elimination of infinitesimal symbols improves the quality of the results obtained by extended quantifier elimination. This talk is based on a previous joint work with Thomas Sturm and Andreas Dolzmann.

Tešíme sa na stretnutie s Vami pri šálke kávy alebo čaju.

Ing. Ivana Budinská, PhD.  
riaditeľka