

*The Workshop on  
Model Theory of Valued Fields, October 1-8, 2018  
School of Mathematics, IPM, Tehran*

## **Model Theory of Algebraically Closed Valued Fields**

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The goal of these lecture will be to introduce and develop the model theory of algebraically closed valued fields with a view towards the more recent applications — although we will not address those applications. We will start with Robinson's quantifier elimination result and will then deduce various results about definable sets, among others C-minimality. Finally we will discuss imaginaries and the Haskell-Hrushovski-Macpherson result that they can be eliminated in the geometric language.