

Physics Teacher Preparation at Hubei University:

Traditional and Modern Approaches

Dr. Weining Wu, Hubei University, China

Prof. Yiming Ding, Hubei University, China

Prof. Kathleen A. Falconer, University of Cologne, Germany



Dr.Wu



Speaker

Prof.Ding



Co-author 1

Prof.Falconer



Co-author 2

Part I Teacher Preparation at Hubei University





Main Entrance of HUBU





The Founding Meeting of Normal School of HUBU





Location of Normal School of HUBU



Part II Reformed Approaches of Teacher Preparation



1. Provide More Opportunity for Students to Practice



Prof. Ding was observing a student's micro-teaching



2. Encourage Student to Take Part in Teaching Competitions



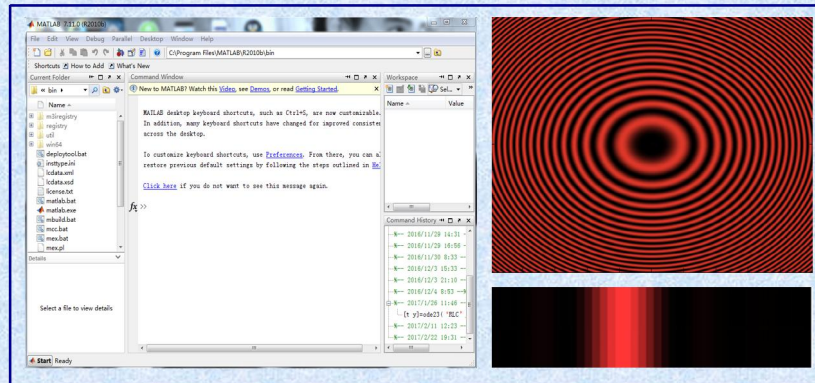
A master student is participating in a university level teaching competition



3. Improve Students' Ability of Using Educational Technology

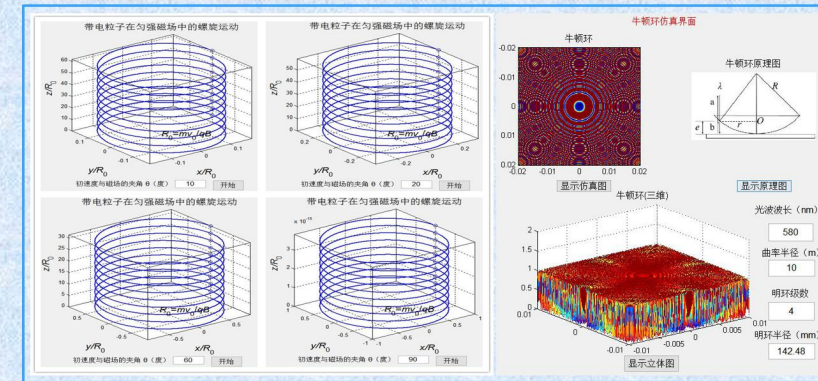
四、信息技术运用于物理实验模拟

1. 用Matlab模拟物理实验-----中级科学计算



四、信息技术运用于物理实验模拟

2. 用Matlab的GUI模拟物理实验-----高级科学计算



Simulation experiments with MATLAB





Pic. 1



Pic. 2



Pic. 3

**Pic.1 Digital experiment textbook written by Prof. Ding;
Pic.2 Teaching of mobile phone sensor
Pic.3 Students use mobile phone sensor to implement teaching**



4. Renew Teaching Conception



Introduce RTOP to graduate students



Show demonstration of TPS by Prof.Dan MacIsaac



4. Renew Teaching Conception



Graduate students are showing their understanding of RTOP



5. Cultivate Physics Education Research ability



Testbook written by Dr.Wu



Dr. Wu won the excellent teaching quality award



Part III Achievements and Challenges

Achievement: continuous improvement of teaching skills



Part of winning certificates awarded by students participating in all kinds of physics teaching competitions at all levels



➤ 获奖:



Some certificates of award won by our physics teacher preparation programme



Challenge: teaching conceptions still needs to be improved



The Speaker and Co-authors' Quick Response Codes or URL:



Wu's QR code



Ding's QR code

Falconer's URL: [Institut für Physik und ihre Didaktik: Kathleen Falconer \(uni-koeln.de\)](https://www.uni-koeln.de/fisik)



Thank You for Listening!

