

# CYRILL SLEZAK

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## EDUCATION

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<b>University of Cincinnati</b> Ph. D., in progress - Physics completion imminent Advisor: Prof. Mark Jarrell	Cincinnati, Ohio 01/01 - current
<b>University of Cincinnati</b> Master of Science, 2001 – Physics	Cincinnati, Ohio 09/98 - 12/00
<b>Adams State College</b> Bachelor of Arts – 1998, Cum Laude Major: Physics and Music Performance Minor: Mathematics	Alamosa, Colorado 08/94 – 05/98

## PROFESSIONAL EXPERIENCE

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<b>Visiting Assistant Professor,</b> in Physics Education University of Cincinnati	09/05 – present Cincinnati, Ohio
<b>Research Assistant,</b> Oak Ridge National Laboratories in conjunction with the University of Cincinnati under supervision of Dr. Thomas Maier	09/03 – 08/05 Oak Ridge, Tennessee
<b>Teaching Assistant for</b> “Physical Science by Inquiry for Teachers” under supervision of Prof. Robert Endorf, University of Cincinnati	07/03 – 08/03 Cincinnati, Ohio
<b>Scientific Employee,</b> Universität Augsburg	01/02 – 06/02 Augsburg, Germany

**Teaching Assistant,**  
University of Cincinnati

09/98 – 06/03  
Cincinnati, Ohio

**Tutor for Physics, Mathematics and Music**  
Adams State College

1996 - 1998  
Alamosa, Colorado

## COURSES TAUGHT

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### **College Physics - Algebra Based**

Recitations – Inquiry based, *University of Cincinnati*  
Laboratories, *University of Cincinnati*

### **General Physics - Calculus Based**

Recitations – Problem and Inquiry based, *University of Cincinnati*  
Laboratories, *University of Cincinnati*

### **Honors Physics - Calculus/Mathematica Based**

Laboratories, *University of Cincinnati*

### **Meteorology**

Recitations, *University of Cincinnati*

### **Physical Science by Inquiry for Inservice Teachers**

Assistant, *University of Cincinnati*

## COMPUTER SKILLS

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**Programming Languages** – Fortran-77, Fortran-90, C, C++, PERL, CGI,  
Mathematica

**Programming Libraries** - LAPACK, BLAS, MPI

**Platforms** – Windows, MAC, Unix and SUN workstations, IBM SP, Beowulf Linux cluster,  
Itanium 2 cluster

## PUBLICATIONS

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1.) C.Slezak, S. Kehrein, Th. Pruschke, M. Jarrell, *Semi-Analytical Solution of the Kondo Model in a Magnetic Field*, Phys. Rev. B 67, 184408 (2003).

2.) Th.A. Maier, M. Jarrell, A. Macridin, and C. Slezak, *Kinetic Energy Driven Pairing in the Cuprates*, Phys. Rev. Lett. 92, 027005 (2004).

3.) C. Slezak, A. Macridin, G. A. Sawatzky, M. Jarrell and T. A. Maier, *Spectral Properties of Holstein and Breathing Polarons*, cond-mat/0602249(preprint).

4.) C. Slezak, M. Jarrell, Th. Maier and J. Deisz, *Multi-scale Extensions to Quantum Cluster Methods for Strongly Correlated Electron Systems*, cond-mat/0603421(preprint).

## SEMINARS

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*Semi-Analytical Solution of the Kondo Model in a Magnetic Field*, presented June 2002,  
Lehrstuhlseminar, Universität Augsburg, Germany.

## REFERENCES

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Available on request