

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ



مقدمات درس روشهای شبیه سازی در فیزیک (نظریه و محاسبات)

سید محمد صادق موحد

دانشکده فیزیک دانشگاه شهید بهشتی
گروه کیهانشناسی محاسباتی و آزمایشگاه ابن سینا

سال تحصیلی ۱۴۰۱-۱۴۰۲

ccg.sbu.ac.ir

smovahed.ir



وبسایت درس



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Seyed Mohammad Sadegh Movahed Academic Homepage

News

 My program in the Winter semester (1401-1402 (2022-2023)) ([Download](#))

My weekly meeting will be found in <http://ccp.sbu.ac.ir/weekly-meetings/>

General information regarding scientific projects in my group (نظام موضوعات پژوهشی در گروه علمی من) ([Download](#))

Current topics in my group ([Complex systems part](#) & [Cosmology part](#))

[Some proposed Books for the relation between Physics and Philosophy.](#)

Ibn-Sina Lab (COMPLEX SYSTEMS LAB) needs your helps and your scientific contributions (see also Extra news 13): There are some Undergraduate and graduate projects to do. Those who are interested in collaborating on this project call me and send CV for further investigation.

For more information see ([Download](#)), See also a short movie for ICTP's School ([Download](#)), Visit also ([Homepage](#))

For those, who are interested in using Ibn-Sina Lab ([Download](#))

 [Ibn-Sina Lab \(COMPLEX SYSTEMS LAB\) needs your helps and your scientific contributions \(see also Extra news 13\):](#)

About Me



Tomb of Cyrus the great (Pasargadae, IRAN)



<http://facultymembers.sbu.ac.ir/movahed/>

وبسایت درس

SHAHID BEHESHTI UNIVERSITY
Department of Physics

Department of Physics
Shahid Beheshti University

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Advanced course on Computational Physics (Winter-Spring 2023)

Thursday, 26 January 2023 00:00

Advanced course on Computational Physics for Ph.D. and MS students (Winter-Spring 2023)


This course is devoted to advanced and more recent topics in computational methods for physics.

[Link for my previous lectures on Computational Physics \(SBU-VPN needed\)](#)


Some topics to teach are as follows:

- Solving coupled Differential Equations and Boundary Value Problems
- Chaotic phenomena
- Probability Distribution functions and transformations
- Correlation functions, Two-point correlation function
- Spectral analysis
- Monte Carlo simulation
- Basic topics for Molecular dynamics simulations
- Simulation by VPython

About Me



Tomb of Cyrus the great (Pasargadae, IRAN)



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Bash script

Example 1: making different folders

Example 2: reading from a file and make associated folders and plot input data

Sarmad



اطلاعیه‌های کارگاه‌های آموزشی در حال برگزاری

فرم‌ها و قوانین

فایل‌های آموزشی

سامانه

کارگاه‌های آموزشی برگزار شده

سرمد

SBU CLUSTER

<https://resevp.sbu.ac.ir/sarmad>

Number Representation