

LITERATURE SEARCH

Goal: Today you will learn search tools for doing a thorough literature search. Part of doing research is to know what previously has been studied, what the results were and what is currently of interest to your field of expertise. You will apply the tools to find literature for the topic of your current project. You will write a paper on your current project and your literature search and the reading of the found papers will provide the necessary background for the introduction of your paper.

In the following I will show you the tools for the example of the Ising model. After the Ising model example you will also apply the shown steps to your current project.

Overview

Go to our PHYS 310 webpage

<http://www.eg.bucknell.edu/physics/ph310/>

and scroll down to "Literature Search Tools". I will guide you through the provided links.

1. Web of Science

Click on the Web of Science link. (In case you are using Web of Science while not being directly on the Bucknell internet, you can get into Web of Science by using the Databases link and then Web of Science, which will ask you for your Bucknell login information.)

- Search by topic
- Cited References (Past)
- Times Cited (Future)
- View Related Records
- author
- Year Published (for getting known reference; e.g. for only present)

2. WorldCat

- choose Bucknell University Bertrand Library
- keyword: Ising model
- advanced search: keywords: Ising model and simulation

3. Web of Science For Your Project

3a. Gravitational Constant

Here a few tips for how to get started:

- search for “gravitational constant”
- search for “gravitational constant” and “balance beam”
- search for topics: “gravitational constant” and “gravimeter” and author: “Baldi”
- use Cited References and Times Cited
- search for author: Schlamminger and author Holzschuh

3b. Solar Spectroscopy

Here a few tips for how to get started:

- search for “sun” and “Fraunhofer”
- use Cited References and Times Cited
- search for author: Solani and author: Krivova

3c. Nuclear Spectroscopy

Here a few tips for how to get started:

- search for “nuclear spectroscopy” and “Cesium”
- search for “nuclear spectroscopy” and “Cs-137”
- use Cited References and Times Cited
- search for author: Krmar and author Anicin