

PHYS 721 Homework 1

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1. (a) C++

```
#include <iostream>

using namespace std;

int main(){

    cout << "Subatomic Physics" << endl;
    return 0;

}
```

compile and run with:

```
$ g++ hw_1.cpp -o hw_1
$ ./hw_1
```

- (b) python

```
#!/usr/bin/env python

print "Subatomic Physics"
```

run with:

```
$ chmod +x hw_1.py
$ ./hw_1.py
```

2. Written in latex; Document attached.

3. Questions

- (a) My favorite subatomic particle is the electron.
- (b) I wish to learn more about what pentaquarks are.
- (c) My favorite accelerator, that I wish to learn more about, is the proposed electron ion collider at either BNL or JLab.
- (d) My favorite detector, that I wish to learn more about, is CLAS detector in hall B at JLab.
- (e) The thing that puzzles me most about subatomic physics is particle astrophysics and the search for dark matter through subatomic particles.