Lecture_01

October 28, 2022

```python
[1]: import numpy as np
```

```python
[2]: def hamiltonian(t, delta):
         return np.array([[0, t], [t, delta]])
```

```python
[3]: def solve(t, delta):
         H = hamiltonian(t, delta)
         return np.linalg.eigvals(H)
```

```python
[4]: hamiltonian(t=1, delta=1)
```

```python
[4]: array([[0, 1],
            [1, 1]])
```

```python
[5]: solve(t=0.1, delta=1)
```

```python
[5]: array([-0.00990195,  1.00990195])
```

```python
[ ]:
```