py_uncertainty

November 11, 2021

[2]:
```
from uncertainties import ufloat
#to install: "pip install uncertainties"
```

[4]:
```
emf = 9
r1 = 100
r2 = 120

ipred = emf / ( r1 + r2 )
```

[5]:
```
#EMF 9V +- 0.1 V
emf = ufloat(9,.1)
```

[6]:
```
print(emf)
```

```
9.00+/-0.10
```

[7]:
```
print(emf.nominal_value)
```

```
9.0
```

[8]:
```
print(emf.std_dev)
```

```
0.1
```

[9]:
```
#EMF 9V +- 0.1 V
#R1 = 120 +- 12
#R2 = 470 +- 47

emf = ufloat(9,.1)
r1 = ufloat(120,12)
r2 = ufloat(470,47)

ipred = emf / (r1 + r2)
```

[10]:
```
print(ipred)
```

```
0.0153+/-0.0013
```

[11]:
```
print(ipred.nominal_value)
```

```
0.015254237288135594
```

[12]:
```
print(ipred.std_dev)
```

```
0.0012655510114174793
```

[ ]:
```

```