My document

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1 Markdown

Markdown is an easy to read and write text format:

- It's *plain text* so works well with version control
- It can be **rendered** into HTML, PDF, and more
- Learn more at: https://quarto.org/docs/authoring/

2 Code Cell

Here is a Python code cell:

```python
import os
os.cpu_count()
```

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3 Equation

Use LaTeX to write equations:

$$\chi' = \sum_{i=1}^{n} k_i s_i^2$$

```python
import numpy as np
import matplotlib.pyplot as plt

r = np.arange(0, 2, 0.01)
theta = 2 * np.pi * r
fig, ax = plt.subplots(subplot_kw={'projection': 'polar'})
ax.plot(theta, r)
ax.set_rticks([0.5, 1, 1.5, 2])
ax.grid(True)
plt.show()
```