SunQuarTeX-enpre Test

Subtitle Here

sun123zxy

SunQuarTeX

2024-02-22[1]

[1] Last modified on 2024-02-22.

Texts

long long long long long long *long long long* long long long long long long long long long long long long long long long long long long long long long long long sentence.
long long long long long long long long long long long long long long long long long long long long long long long long long long long long long long long long long long long paragraph.

- left bar.
- narrow narrow narrow narrow narrow narrow narrow narrow narrow narrow narrow narrow left bar.

- right bar.
- wide wide wide wide wide wide wide wide wide wide wide wide wide wide wide wide wide wide wide wide wide wide right bar.

Lists

- This is a list.
- A compact list.

Wow.

- This is a list.
- A sparse list.

A definition list below.

Reflexivity $a \sim a$

Antisymmetry $a \leq b \land b \leq a \implies a = b$

Transitivity $a \leq b \land b \leq c \implies a \leq c$

Citations

Blah [Tai+, 1, chapter 3, sec. 2, theorem 3]. Blah blah [Tai+; TP]. Blah blah blah[2].

[2] This is a footnote

Code

```cpp
#include<bits/stdc++.h>
using namespace std;

int main(){
    return 0;
}
```

Tables

$L_i \times C_j$	2	$\mathbb{N}$	$\mathbb{R}$
2	4	$\mathbb{N}$	$\mathbb{R}$
$\mathbb{N}$	$\mathbb{N}$	$\mathbb{N}$	?
$\mathbb{R}$	$\mathbb{R}$	?	$\mathbb{R}$

(a) Products

$L_i^{C_j}$	2	$\mathbb{N}$	$\mathbb{R}$
2	4	$\mathbb{R}$	$2^{\mathbb{R}}$
$\mathbb{N}$	$\mathbb{N}$	?	?
$\mathbb{R}$	$\mathbb{R}$	?	?

(b) Powers

Table: Several results on cardinality

Referable Table 1a.

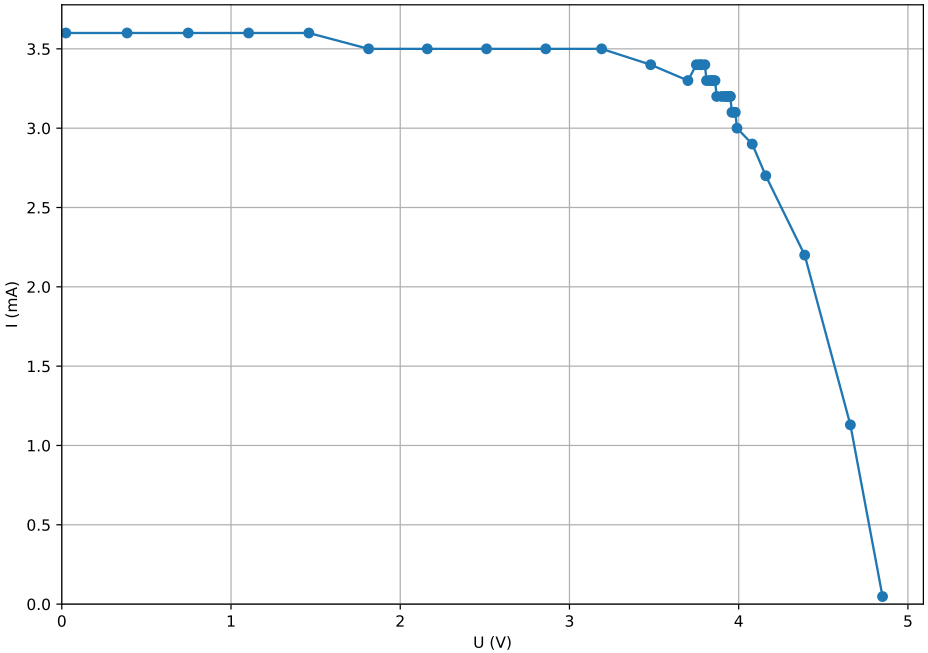
Figures

Figure: This is a figure

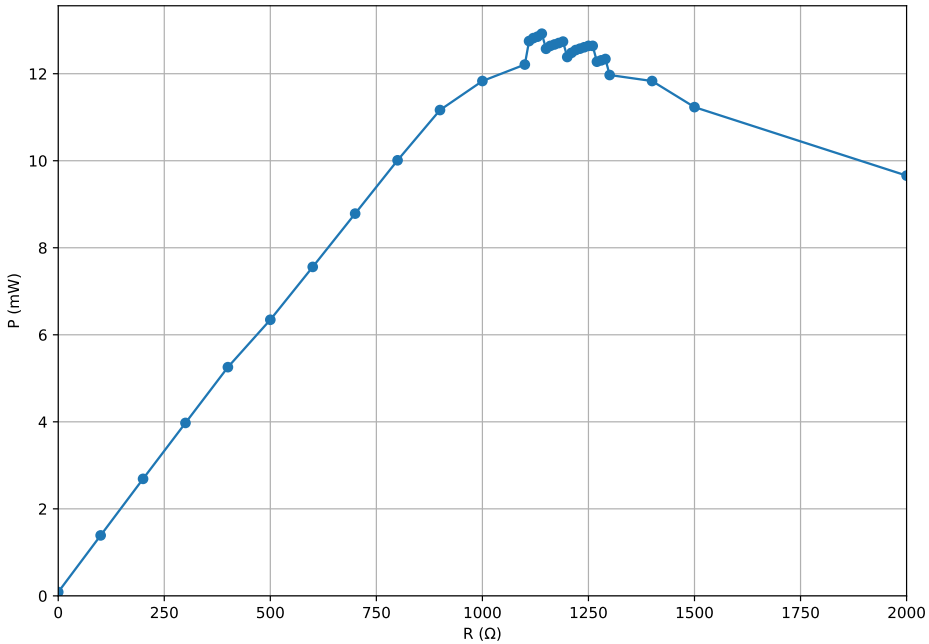
Referable Figure 1.

Computations

Complex side by side. (Figure 2, Figure 2a, Figure 2b)



(a) I-U



(b) P-R

Figure: solar panel

Theorems I

Theorem (Test)

This is a theorem.

$$\sum_{d|n} \varphi(d) = n$$

Proof.

This is a proof ended with a display math.

$$\sum_{d|n} \mu(d) = [n = 1]$$

□

Theorems II

Proof.

This is a really long proof. □

Definition

This is a definition.

Example (An example)

This is an example.

Solution

This is the solution to the example.

Theorems III

Exercise

This is an exercise.

Remark

This is a remark of Exercise 1.

Lemma

This is a lemma.

Corollary

This is a corollary of Theorem 2.1.

Theorems IV

Proposition

This is a proposition.

Conjecture

This is a conjecture.

References I

[Tai+] Y Taigman et al. “Closing the gap to human-level performance in face verification. deepface”. In: *Proceedings of the IEEE Computer Vision and Pattern Recognition (CVPR)*. Vol. 5, p. 6.

[TP] M. Turk and A. Pentland. “Eigenfaces for Recognition”. In: *Journal of Cognitive Neuroscience* 3.1 (), pp. 71–86.