

SUNQUAR_{TeX}-enpre Test

Subtitle Here

sun123zxy

SUNQUAR_{TeX}

2024-02-22¹

¹Last 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 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 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 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 $a \leq b \wedge b \leq a \implies a = b$

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

Blah [Tai+, 1, chapter 3, sec. 2, theorem 3]. Blah blah [Tai+; TP]. Blah
blah blah².

²This is a footnote

```
#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.

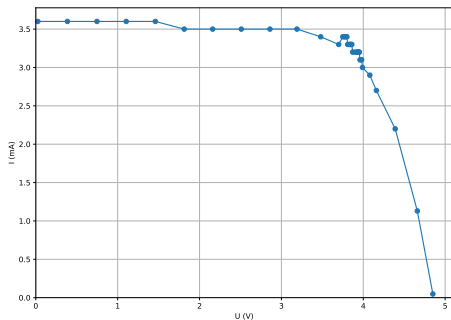
The logo for SUNQUARTeX is displayed in a large, black, serif font. The letters are bold and have a slight shadow effect, giving them a three-dimensional appearance. The 'Q' and 'A' are particularly stylized, with the 'Q' having a thick, rounded body and the 'A' having a sharp, pointed top.

Figure: This is a figure

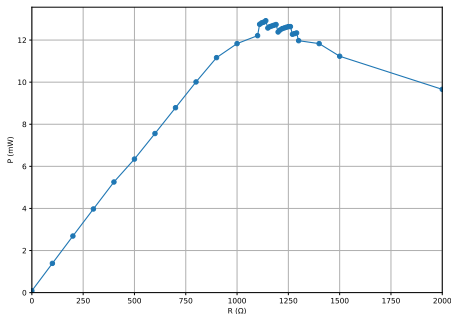
Referable Figure 1.

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.

[illegible]

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.