

VERY IMPRESSIVE TEXT

Collection of important mathematical bullshit and definitions

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1 VfdA

The abbreviation *VfdA* stands for the German expression *Voll für den Ar**** and can be used in pseudo-academic papers and documents like the current one. It is generally used before a long-winded and utterly useless mathematical proof, which stands in no connection to the rest of the paper. It is only used to impress possible readers and to boast about the non-existent knowledge of the author about mathematical subjects. A perfect example for this abbreviation is the following one:

$$\begin{aligned}
 \text{VfdA : } \quad \mathcal{F}(f)(t) &= \frac{1}{(2\pi)^{\frac{n}{2}}} \int_{\mathbb{R}^n} f(x) e^{-it*x} dx & \int_{-\infty}^{\infty} |f(t)| dx < \infty \\
 f_m &= \sum_{k=0}^{n-1} x_{2k} e^{-\frac{2\pi i}{2n} m(2k)} + \sum_{k=0}^{n-1} x_{2k+1} e^{-\frac{2\pi i}{2n} m(2k+1)} \\
 &= \sum_{k=0}^{n-1} x'_k e^{-\frac{2\pi i}{2n} mk} + e^{-\frac{\pi i}{n} m} \sum_{k=0}^{n-1} x''_k e^{-\frac{2\pi i}{n} mk} \\
 &= \begin{cases} f'_m + e^{-\frac{\pi i}{n} m} f''_m & \text{if } m < n \\ f'_{m-n} - e^{-\frac{\pi i}{n} (m-n)} f''_{m-n} & \text{if } m \geq n \end{cases}
 \end{aligned}$$

One shall note, that *VfdA* automatically implicates *OBdA* (German: *Ohne Beschränkung der Allgemeinheit*, English: *Without loss of generality*) to compensate the so-called *LoC* (English: *Loss of context*) when used.

2 Plustorial

The *plustorial* (German: *Die Plusultät*) of a number is defined as follows:

$$n? := \sum_{i=1}^n i \quad (n \in \mathbb{Z}) \qquad n? = \sum_{i=1}^n i = \frac{n(n-1)}{2}$$

3 Closed Interval

The alternate notation for a closed interval over a set $K \subseteq \mathbb{K}$, which has the comparison operator \leq defined for every elements $k, l \in K$, can be written as follows:

$$\begin{aligned}
 \langle k, l \rangle &:= \begin{cases} [k, l], & \text{if } k \leq l \\ [l, k], & \text{otherwise} \end{cases} & l, k \in K \subseteq \mathbb{K} \\
 \langle \pm k \rangle &:= [-k, k]
 \end{aligned}$$

4 Set with a finite amount of elements

Let K be the subset of the field \mathbb{K} and let $f : K \rightarrow \mathbb{B}$ be a function, which defines for every element $k \in \mathbb{K}$, whether it is also an element of the subset K .

$$\forall k \in \mathbb{K} : f(k) \Leftrightarrow k \in K$$

Based on the equation above, the subset K can now be re-defined as follows:

$$K = \{k \in \mathbb{K} \mid f(k)\} \subset \mathbb{K}$$

The following notation can be used to indicate, that the subset $K \subset \mathbb{K}$ has only a finite amount of elements k :

$$\{k \in \mathbb{K} \mid f(k)\}_{\infty}^< : \Leftrightarrow |\{k \in \mathbb{K} \mid f(k)\}| < \infty$$

5 Assembler command "ABK"

The i386 assembler command ABK triggers a quadruple-fault, when loaded into the instruction cache during execution and simultaneously short-circuits the machine's DC voltage regulator with the CPU power inlet, causing the CPU to be grilled with with the given DC voltage (usually 240V in Europe). Have Fun! Example usage:

```
mov    dword ptr [ebp-18h], esp
push   1
call   dword ptr ds:[404090h]
add    esp, 4
mov    dword ptr ds:[403030h], 0FFFFFFFFh
mov    ecx, dword ptr ds:[403020h]
call   dword ptr ds:[404088h]
mov    edx, dword ptr ds:[403028h]
mov    dword ptr [eax], edx
mov    dword ptr ds:[403038h], ecx
mov    eax, [403010]
call   dword ptr ds:[404080h]
add    esp, 4
call   401C60
push   403008h
add    esp, 8
mov    edx, dword ptr ds:[403024h]
mov    dword ptr [ebp-28h], edx
push   eax
mov    ecx, dword ptr ds:[403020h]
lea    ecx, dword ptr [ebp-10h]
abk    // initiate quadruple-faulting
```

6 <To be defined>

<insert some random text here>