



planetmath.org

Math for the people, by the people.

A.1.5 The finite types

| | |
|------------------|-------------------------|
| Canonical name | A15TheFiniteTypes |
| Date of creation | 2013-11-09 4:53:25 |
| Last modified on | 2013-11-09 4:53:25 |
| Owner | PMBookProject (1000683) |
| Last modified by | PMBookProject (1000683) |
| Numerical id | 1 |
| Author | PMBookProject (1000683) |
| Entry type | Feature |
| Classification | msc 03B15 |

We introduce primitive constants \star , $\mathbf{0}$, $\mathbf{1}$, satisfying the following rules:

- $\mathbf{0} : \mathcal{U}_0, \mathbf{1} : \mathcal{U}_0$
- $\star : \mathbf{1}$

Given $C : \mathbf{0} \rightarrow \mathcal{U}_n$ we can introduce a defined constant $f : \prod_{(x:\mathbf{0})} C(x)$, with no defining equations.

Given $C : \mathbf{1} \rightarrow \mathcal{U}_n$ and $d : C(\star)$ we can introduce a defined constant $f : \prod_{(x:\mathbf{1})} C(x)$, with defining equation $f(\star) \equiv d$.