

PERIODIC SYSTEM OF NUMBERS

I	\mathbb{F}_1				
Field with one element	[2]. [1] \subseteq [2]				
II	\mathbb{F}_p Field with p elements	p	[3]. [2] \subseteq [3]		
		p	global		
III	\mathbb{F}_{p^2} Field with p^2 elements	p	$\mathbb{F}_p(\mathbf{T})$ \mathbb{F}_p -valued function field	[4]. [3] \subseteq [4]	
		p	global	p	local
IV	\mathbb{F}_{p^3} Field with p^3 elements	p	$\mathbb{F}_{p^2}(\mathbf{T})$ \mathbb{F}_{p^2} -valued function field	$\mathbb{F}_p((\mathbf{T}))$ \mathbb{F}_p -valued Laurent series	
		p	global	p	local
V	\mathbb{F}_{p^4} Field with p^4 elements	p	$\mathbb{F}_{p^3}(\mathbf{T})$ \mathbb{F}_{p^3} -valued function field	$\mathbb{F}_{p^2}((\mathbf{T}))$ \mathbb{F}_{p^2} -valued Laurent series	
		p	global	p	local
VIII	\mathbb{F}_{p^5} Field with p^5 elements	p	$\mathbb{F}_{p^4}(\mathbf{T})$ \mathbb{F}_{p^4} -valued function field	$\mathbb{F}_{p^3}((\mathbf{T}))$ \mathbb{F}_{p^3} -valued Laurent series	
		p	global	p	local
VI	\mathbb{F}_{p^n} Field with p^n elements	p	$\mathbb{F}_{p^n}(\mathbf{T})$ \mathbb{F}_{p^n} -valued function field	$\mathbb{F}_{p^n}((\mathbf{T}))$ \mathbb{F}_{p^n} -valued Laurent series	
		p	global	p	local
VII	$\mathbb{F}_{p^{n+1}}$ Field with p^{n+1} elements	p	$\mathbb{F}_{p^n}(\mathbf{T})(\mathbf{A})$ Finite, algebraic extension of $\mathbb{F}_{p^n}(\mathbf{T})$	$\mathbb{F}_{p^n}((\mathbf{T}))(\mathbf{A})$ Finite, algebraic extension of $\mathbb{F}_{p^n}((\mathbf{T}))$	
		p	global	p	local
IX	$\overline{\mathbb{F}_p}$ Algebraic closure of \mathbb{F}_p	p	$\overline{\mathbb{F}_{p^n}(\mathbf{T})}$ Algebraic closure of $\mathbb{F}_{p^n}(\mathbf{T})$	$\overline{\mathbb{F}_{p^n}((\mathbf{T}))}$ Algebraic closure of $\mathbb{F}_{p^n}((\mathbf{T}))$	
		p	global	p	local
X	$\widehat{\mathbb{F}_p}$ Completion of $\overline{\mathbb{F}_p}$	p	$\widehat{\mathbb{F}_{p^n}(\mathbf{T})}$ Completion of $\mathbb{F}_{p^n}(\mathbf{T})$	$\widehat{\mathbb{F}_{p^n}((\mathbf{T}))}$ Completion of $\mathbb{F}_{p^n}((\mathbf{T}))$	
		p	global	p	local

[9]									
		0		N ₀					
Cardinal numbers		0		Natural numbers					
Card	0	*N	0	Z	Integers	[7]. [7] ⊆ [9]	[10]. [10] ⊆ [9]	[13]. [13] ⊆ [9]	
Ordinal numbers	0	*Z	0	Q	global	0	O _{Q(A)}	0	Z _p
		Hyperintegers		profinite integers	Rational numbers		Ring of integers of Q(A)	[12]. [12] ⊆ [9]	p-adic integers
Surreal numbers	0	*Q	0	A _F	local	0	O _{Q_p(A)}	0	Q _p
		Hyperrational numbers		Adele ring of number field F	Real numbers		Algebraic integers		p-adic rational numbers
	0	*R	0	C	local	0	Q̄	0	Q _p (A)
		Hypereal numbers	[8]. [8] ⊆ [9]	Complex numbers		[11]. [11] ⊆ [9]	Algebraic closure of Q		Finite, algebraic extension of Q _p
	0	*C	0	H ^{⊕2}	0	0	C ^{⊕2}	0	R[ε]/(ε ²)
		Hypercomplex numbers		Split-quaternions			Quaternions		Dual numbers
	0	Cℓ _{i,j} (R)	0	O	0	0	Cℓ ₂ (C)	0	R ^{⊕2}
		Real (p,q)-Clifford algebra		Octonions			Bicomplex numbers		Split-complex numbers
	0	Cℓ _{i,j} (R)	0	S	0	0	Cℓ _n (C)	0	Q̄ _p
		Real (p,q)-Clifford algebra		Sedenions			Complex n-Clifford algebra		Algebraic closure of Q _p
	0	Cℓ _{i,j} (R)	0	S	0	0	Cℓ _n (C)	0	Q̄ _p
		Real (p,q)-Clifford algebra		Sedenions			Complex n-Clifford algebra		Completion of Q _p
	0	Cℓ _{i,j} (R)	0	CD _R (n)	0	0	CD _R (n)	char property (of field)	Symbol
		Real (p,q)-Clifford algebra		Cayley-Dickson construction					Name
								n, i, j ∈ N ₀ , p prime	