							$\frac{\overline{\Gamma \vdash \mathbb{N} \text{ type}} \qquad \frac{\overline{\Gamma \vdash \mathbb{s} : \mathbb{N} \to \mathbb{N}}}{\Gamma, m : \mathbb{N} \vdash \mathbb{s}(m) : \mathbb{N}} \text{ev}}{\Gamma, m : \mathbb{N}, n : \mathbb{N} \vdash \mathbb{s}(m) : \mathbb{N}} W$	$\frac{\frac{\Gamma \vdash \mathbb{N} \text{ type}}{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}} \delta}{\Gamma, m : \mathbb{N}, n : \mathbb{N} \vdash n : \mathbb{N}} W$	$\frac{\frac{\overline{\Gamma \vdash \mathbf{s} : \mathbb{N} \to \mathbb{N}}}{\Gamma, m : \mathbb{N} \vdash \mathbf{s}(m) : \mathbb{N}} e\mathbf{v}}{\Gamma, m : \mathbb{N}, n : \mathbb{N} \vdash \mathbf{s}(m) : \mathbb{N}} W$	$\frac{\frac{\Gamma \vdash \mathbb{N} \text{ type}}{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}} \delta}{\Gamma, m \colon \mathbb{N}, n \colon \mathbb{N} \vdash n \colon \mathbb{N}} W$	$\frac{\overline{\Gamma \vdash \mathbb{N} \text{ type}}}{\Gamma, m : \mathbb{N}, n : \mathbb{N} \vdash n : \mathbb{N}} \frac{\overline{\Gamma} \vdash \mathbb{N} \text{ type}}{\Gamma, n : \mathbb{N} \vdash n : \mathbb{N}} \delta}{\Gamma, m : \mathbb{N}, n : \mathbb{N} \vdash n : \mathbb{N}} W \qquad \frac{\overline{\Gamma} \vdash \mathbb{N} \text{ type}}{\Gamma, m : \mathbb{N}, n : \mathbb{N} \vdash m : \mathbb{N}} \delta}{\Gamma, m : \mathbb{N}, n : \mathbb{N} \vdash m : \mathbb{N}} W}{\Gamma, m : \mathbb{N}, n : \mathbb{N} \vdash (m+n) : \mathbb{N}}$ $\Gamma, m : \mathbb{N}, n : \mathbb{N} \vdash s(m+n) : \mathbb{N}$	$\frac{\overline{\Gamma \vdash \mathbf{s} : \mathbb{N} \to \mathbb{N}}}{\overline{\Gamma, m : \mathbb{N} \vdash \mathbf{s} : \mathbb{N} \to \mathbb{N}}} W} \frac{\overline{\Gamma, m : \mathbb{N} \vdash \mathbf{s} : \mathbb{N} \to \mathbb{N}}}{\overline{\Gamma, m : \mathbb{N}, n : \mathbb{N} \vdash \mathbf{s} : \mathbb{N} \to \mathbb{N}}} W} \frac{\overline{\Gamma, m : \mathbb{N}, n : \mathbb{N} \vdash \mathbf{ap_s} : \Pi_{(x : \mathbb{N})} \Pi_{(y : \mathbb{N})}(x = y \to \mathbf{s}(x) = \mathbf{s}(y))}}{\overline{\Gamma, m : \mathbb{N}, n : \mathbb{N}, x : \mathbb{N} \vdash \mathbf{ap_s}(x) : \Pi_{(y : \mathbb{N})}(x = y \to \mathbf{s}(x) = \mathbf{s}(y))}}}{\overline{\Gamma, m : \mathbb{N}, n : \mathbb{N}, x : \mathbb{N}, y : \mathbb{N} \vdash \mathbf{ap_s}(x, y) : x = y \to \mathbf{s}(x) = \mathbf{s}(y)}}} \mathbf{ev} \mathbf{c}$
						$\Gamma, m: \mathbb{N}, n: \mathbb{N} \vdash m + s(n) \equiv s(m+n): \mathbb{N}$	$\Gamma, m: \mathbb{N}, n: \mathbb{N} \vdash s(m) + s(n) \equiv s(s(m) + n) : \mathbb{N}$		$\Gamma, m: \mathbb{N}, n: \mathbb{N} \vdash (s(m)+n): \mathbb{N}$		$\Gamma, m: \mathbb{N}, n: \mathbb{N}, x: \mathbb{N} \vdash \operatorname{ap_s}(x, \operatorname{s}(m+n)) : x = \operatorname{s}(m+n) \to \operatorname{s}(x) = \operatorname{s}(\operatorname{s}(m+n))$	
							$\Gamma, m: \mathbb{N}, n: \mathbb{N} \vdash s(s(m) + n) \equiv s(m) + s(n) : \mathbb{N}$		$\Gamma, m: \mathbb{N}, n: \mathbb{N} \vdash \operatorname{ap}_{\mathbf{s}}(\mathbf{s}(m) + n, \mathbf{s}(m+n)) : \mathbf{s}(m) + n = \mathbf{s}(m+n) \to \mathbf{s}(\mathbf{s}(m) + n) = \mathbf{s}(\mathbf{s}(m+n))$			
						$\Gamma, m: \mathbb{N}, n: \mathbb{N} \vdash s(m+n) \equiv m + s(n) : \mathbb{N}$	$ \Gamma, m: \mathbb{N}, n: \mathbb{N}, a: \mathbf{s}(m) + n = \mathbf{s}(m+n) \vdash \mathbf{s}(\mathbf{s}(m) + n) \equiv \mathbf{s}(m) + \mathbf{s}(n) : \mathbb{N} $		$\Gamma, \ m: \mathbb{N}, \ n: \mathbb{N}, \ a: \mathbf{s}(m) + n = \mathbf{s}(m+n) \vdash \mathrm{ap}_{\mathbf{s}}(\mathbf{s}(m) + n, \mathbf{s}(m+n))(a) : \mathbf{s}(\mathbf{s}(m) + n) = \mathbf{s}(\mathbf{s}(m+n))$			
$\overline{\Gamma \vdash s : \mathbb{N} \to \mathbb{N}}$ $\overline{\Gamma \vdash \mathbb{N} \text{ type}}$			$\Gamma \vdash s : \mathbb{N} \to \mathbb{N}$	$\Gamma \vdash s : \mathbb{N} \to \mathbb{N}$	$\Gamma, m: \mathbb{N}, n: \mathbb{N} \vdash (\mathbf{s}(m) + \mathbf{s}(n)): \mathbb{N} \qquad \Gamma, m: \mathbb{N}, n: \mathbb{N}, a: \mathbf{s}(m) + n = \mathbf{s}(m+n) \vdash $				s(m+n)(a) : s(m) + s(n) = s(s(m+n))			
$\overline{\Gamma \vdash \mathbb{N} \text{ type}} \qquad \overline{\Gamma, m \colon \mathbb{N} \vdash \mathrm{s}(m) \colon \mathbb{N}}^{\text{ev}} \qquad \overline{\Gamma \vdash \mathbb{N} \text{ type}} \qquad \overline{\Gamma, n \colon \mathbb{N} \vdash n \colon \mathbb{N}}^{\delta}$			$\Gamma, m: \mathbb{N} \vdash s(m): \mathbb{N}$ ev	$\overline{\Gamma, m : \mathbb{N} \vdash s(m) : \mathbb{N}}$ ev	$\Gamma,m:\mathbb{N},n:\mathbb{N},a:\mathrm{s}(m)+n=\mathrm{s}(m+n) \;\vdash\; \mathrm{ap_s}(\mathrm{s}(m)+n,\mathrm{s}(m+n))(a):\mathrm{s}(m)+\mathrm{s}(n)=\mathrm{s}(m+\mathrm{s}(n))$							
${\Gamma, m \colon \mathbb{N}, n \colon \mathbb{N} \vdash \mathrm{s}(m) \colon \mathbb{N}} \qquad {\Gamma, m \colon \mathbb{N}, n \colon \mathbb{N} \vdash n \colon \mathbb{N}} $	$\Gamma, m: \mathbb{N}, n: \mathbb{N} \vdash (m+n): \mathbb{N}$	$\Gamma, m : \mathbb{N} \vdash m + 0 \equiv m : \mathbb{N}$	$\overline{\Gamma, m : \mathbb{N} \vdash s(m) \equiv s(m) + 0 : \mathbb{N}}$	$\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{s(m)} : s(m) = s(m)$	$\Gamma, m: \mathbb{N}, n: \mathbb{N} \; \vdash \; \lambda a \cdot \operatorname{ap_s}(\operatorname{s}(m) + n, \operatorname{s}(m+n))(a) \; : \; \operatorname{s}(m) + n = \operatorname{s}(m+n) \to \operatorname{s}(m) + \operatorname{s}(n) = \operatorname{s}(m+n) \to \operatorname{s}(m)$							
$\Gamma, m: \mathbb{N}, n: \mathbb{N} \vdash (\mathrm{s}(m)+n): \mathbb{N}$	$\Gamma, m: \mathbb{N}, n: \mathbb{N} \vdash s(m+n): \mathbb{N}$	$\Gamma, m : \mathbb{N} \vdash m \equiv m + 0 : \mathbb{N}$	$\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{\mathbf{s}(m)} : \mathbf{s}(m) + 0 = \mathbf{s}(m)$		$\Gamma,m:\mathbb{N},n:\mathbb{N}\;\vdash\;\mathrm{ap_s}(\mathrm{s}(m)+n,\mathrm{s}(m+n)):\mathrm{s}(m)+\mathrm{s}(m)+\mathrm{s}(m)+\mathrm{s}(m)+\mathrm{s}(m)+\mathrm{s}(m)$							
$\Gamma, m : \mathbb{N}, n : \mathbb{N} \vdash (s(m) + n = s(m+n)) \text{ type}$			$\Gamma, m : \mathbb{N} \vdash \operatorname{refl}_{\mathbf{s}(m)} : \mathbf{s}(m) + 0 = \mathbf{s}(m+0)$		$\Gamma, m: \mathbb{N} \; \vdash \; \lambda n. \operatorname{ap_s}(\operatorname{s}(m) + n, \operatorname{s}(m+n)) \; : \; \Pi_{(n:\mathbb{N})} \left(\operatorname{s}(m) + n = \operatorname{s}(m+n) \to \operatorname{s}(m) + \operatorname{s}(n) = \operatorname{s}(m+\operatorname{s}(n)) \right)$							
			· ,			$\Gamma, m : \mathbb{N} \vdash \operatorname{ind}_{\mathbb{N}}(\operatorname{refl}_{s(m)}, \lambda n. \operatorname{ap}_{s}(s(m) + n, s(m+n))) : \Gamma$	$\Pi_{(n:\mathbb{N})}(\mathbf{s}(m) + n = \mathbf{s}(m+n))$					
						$\Gamma \vdash \lambda m.\operatorname{ind}_{\mathbb{N}}(\operatorname{refl}_{\mathbf{s}(m)}, \lambda n.\operatorname{ap}_{\mathbf{s}}(\mathbf{s}(m) + n, \mathbf{s}(m+n))) : \Pi_{(n)}$	$(m:\mathbb{N})\Pi_{(n:\mathbb{N})}(s(m)+n=s(m+n))$					