## LAMBDA

## MODULE LAMBDA SYNTAX Val ::= Id $\lambda Id.Exp$ [binder] SYNTAX Exp ::= ValExp Exp [strict] (Exp) [bracket] SYNTAX KResult ::= ValRULE $(\lambda X:Id.E:Exp)$ V:Val $E[V \mid X]$ SYNTAX Val ::= IntBoolSYNTAX Exp ::= Exp \* Exp [strict]Exp / Exp [strict] Exp + Exp [strict] $Exp \le Exp [strict]$ RULE I1:Int \* I2:Int $I1 *_{Int} I2$ RULE I1:Int / I2:Int $I1 \div_{Int} I2$ $I1 +_{Int} I2$ $I1 \leq_{Int} I2$ SYNTAX Exp := if Exp then Exp else Exp [strict(1)]RULE $\,$ if true then E else - $\dot{E}$ RULE if false then — else ${\cal E}$ E