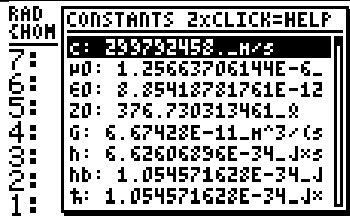
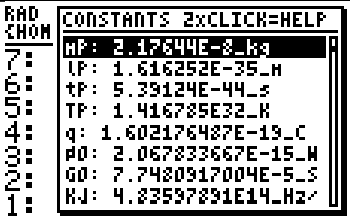
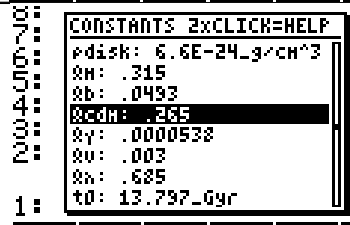
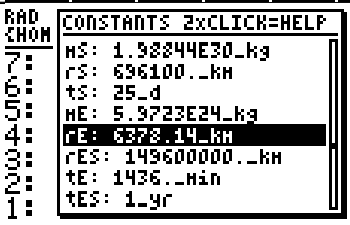
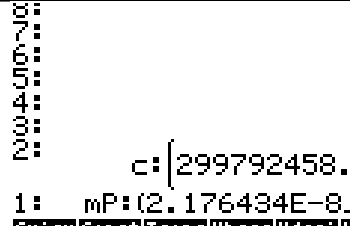


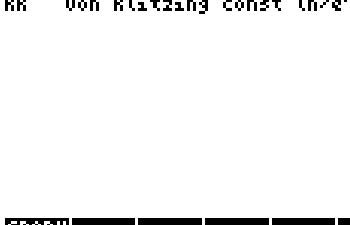


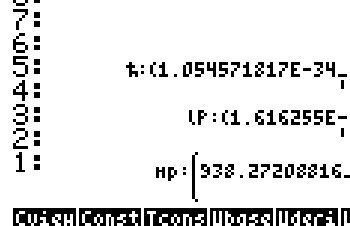
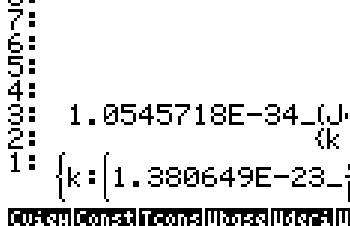
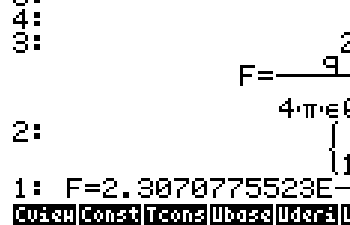
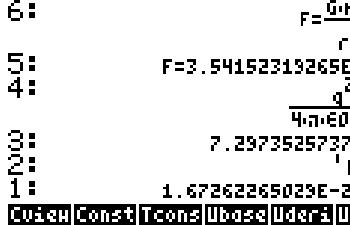
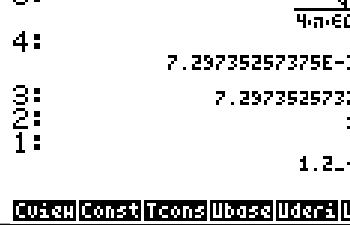
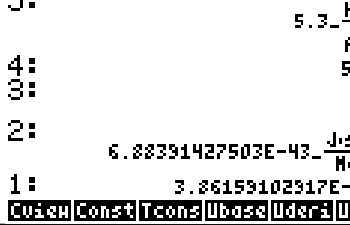




CONSTANT

Cview: view and select ~170 physical constants from choose box (0.1s)		
Cview: view and select ~170 physical constants from choose box		
[OK] puts copy on stack		
Cview: double click gives help		
Cview: double click gives help		
Const: Planck constant, Planck length, proton mass (0.2s)		
expression, list of constants (0.5s)		
Tconst: insert constants and variables in term (2.5s)		
Tconst: term to derived SI-units (2s)		
Ubase: basic SI-units (0.2s)		
Uderi: derived SI-units (1.4s)		

Ubval: convert to basic SI units and then to number (0.5s) Uval: unit to number (0.3s)	<pre> 7: 6: 5: 4: 3: 2: 1: </pre> $l = \frac{h}{m_e c}$ $l = 6.88391427503E-43 \frac{J \cdot s}{MeV \cdot h}$ <pre> 1: l=3.86159102917E-13 Cview Const Tconst Ubase Uderi Uval </pre>	<pre> 6: 5: 4: 3: 2: 1: </pre> $m_e = \left(\frac{.5109989461 \frac{MeV}{c^2}}{c^2} \right)$ $m_p = \left(\frac{938.27208816 \frac{MeV}{c^2}}{c^2} \right)$ <pre> 1: 938.27208816 Uval HelpC Cedit Cadd </pre>
Tconst:	<pre> 5: 4: 3: 2: 1: </pre> $F = \frac{G m_e m_s}{r^2}$ $F = 3.5414461037E22 \frac{N}{m}$ <pre> ExFor SOFA MEIER SOIEN BUCH SOIEN Cview Const Tconst Ubase Uderi Conus </pre>	<pre> 4: 3: 2: 1: </pre> $F = \frac{2 \cdot q^2}{4 \cdot \pi \cdot \epsilon_0 \cdot r^2}$ $F = 6.92123265702E-8 \frac{N}{m}$ <pre> Cview Const Tconst Ubase Uderi Conus </pre>
Tconst, Convert:	<pre> RAD XYZ DEC R= 'X' CHOME WORK? USR 6: 5: 4: 3: 2: 1: </pre> $E = m_e \cdot c^2$ $E = 3.460703032E-13 \frac{J}{1 \text{ MeV}}$ $E = 2.16 \frac{MeV}{MeV}$ <pre> Cview Const Tconst Ubase Uderi Conus </pre>	<pre> 6: 5: 4: 3: 2: 1: </pre> $m_e + m_\mu + m_\tau$ $(\sqrt{m_e} + \sqrt{m_\mu} + \sqrt{m_\tau})^2$ $.666660512346$ <pre> Cview Const Tconst Ubase Uderi Conus </pre>
Chelp: page view of all constants	<pre> c speed of light u0 magnetic const (4π×10⁻⁷) e0 electric const (1/μ0×c²) Z0 vacuum impedance (μ0×c) G Newton const of gravitation h Planck constant hb Planck const, reduced (h/2π) h Planck const, reduced (h/2π) hP Planck mass (hbc×c) lP Planck length (hbc×G/c³) tP Planck time (hbc×G/c⁵) TP Planck temperature hP×c²/k q elementary charge (e) </pre>	<pre> h0 Magn. Fluxquantum (h/2e) G0 conductance quantum (2e²/h) hJ Josephson const (2e/h) RK von Klitzing const (h/e²) hB Bohr magneton (e×h/2me) hN nuclear magneton (e×h/2mp) α fine structure constant (q²/4πε0×hbc×c) Rn Rydberg const (α²×me×c/2h) an Bohr radius (a0/4πRn) Eh Hartree energy (α²×me×c²) GF Fermi constant SIN2θ weak mixing angle at MZ </pre>
Chelp:	<pre> hW Huan mass hT tau mass hM W-boson mass hZ Z-boson mass hH0 Higgs boson mass hU u-quark mass hC c-quark mass hT t-quark mass hd d-quark mass hs s-quark mass hb b-quark mass hve el-neutrino mass (e) hWV Huan-neutrino mass (e) </pre>	<pre> TS solar photosphere temperature rsS schwarzschild radius Sun ρS density Sun ME Mass Earth rE equatorial radius Earth (6356.78.km polar radius) rES orbit radius Earth Sun tE rotation time Earth tES orbit time Earth Sun ρE density Earth rsE schwarzschild radius Earth ee num. excentricity Earth hM Mass Moon </pre>
Help to all programs page 1,2 (0.1s)	<pre> CONSTANTS OF NATURE FROM CODATA, PARTICLE DATA GROUP T = SYMBOL, TERM, LIST T_U = TERM WITH UNITS T_UD = TERM WITH DERIVED SI-UNITS Cview - + - VIEW OR SELECT CONSTANTS FROM CHOOSEBOX OR = CONST TO STACK 2xOK,ENTER = VIEW HELP Const T + T_U CONSTANTS ARE INSERTED +SKIP+SKIP+ +DEL DEL+ DEL L INS = </pre>	<pre> Tconst TCV1..VN) (CV1 A1..U..S) + TCA1..AD) UD TERM WITH (VARS AND) CONSTANTS TO TERM WITH DERIVED UNITS Ubase T_U + T_UD CONVERT TO BASIC SI-UNITS Uderi T_U + T_UD CONVERTS TO DERIVED SI-UNITS Convert T_U T_U' + T_U' CONVERT UNITS IN TERM Uval T_U + T CONVERT TO BASIC SI-UNITS THEN OMIT UNITS +SKIP+SKIP+ +DEL DEL+ DEL L INS = </pre>
Help to all programs page 3 (0.1s) Cadd: add new constant	<pre> Uval T_U + T OMIT UNITS Cedit EDIT Lcon FROM PORT 2 Cadd ADD NEW CONST TO Lcon CONSTANTS: UNIVERSAL ELECTRO MAGNETIC ATOMIC NUCLEAR PHYSICO CHEMICAL PARTICLE MASSES ASTROPHYSICAL +SKIP+SKIP+ +DEL DEL+ DEL L INS = </pre>	<pre> add constant { name value unit "name help" } [ENTER] skips { 4 } Uval HelpC Cedit Cadd </pre>