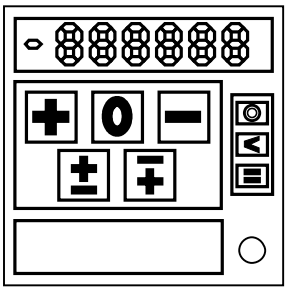
On the Subject of Quantum Ternary Conversion



There are +0 types of people: those who know quantum ternary, those who don't, and those in a superposition of knowing and not knowing.

- On the module is five input buttons, a measurement button, a clear button, and a submit button.
- The upper display shows a number with up to six digits on seven-segment displays. This number is in a superposition of two states, with grey LEDs simultaneously on and off.
- The number may be positive, negative, or both. The state of the minus sign to the left of the display denotes its sign.
- Convert this number into balanced ternary and enter it into the module using the input buttons:
  - Pressing any input button multiples the current entry by three and adds the value of the input pressed.
  - 0: Adds a zero.
  - +: Adds a one.
  - −: Adds a negative one.
  - ±: Adds a simultaneous one and negative one, all ± digits are in the same state.
  - ∓: Adds a simultaneous one and negative one, all ∓ digits are in the opposite state to each of the ± digits.
- Pressing the "◎" button will take a measurement of the state of the number. This collapses the wavefunction to one of its two states and displays it on the upper screen.
  There is no way to undo this or take a measurement of the other state.
- Pressing the "<" button will clear the entry.
- Pressing the "=" button will submit the entry.
  If it is wrong, the number is discarded and a new one will be generated.