

## 1 Relations

Relations:  $a < b < c$

Relations:  $> a$

Relations:  $a >$

## 2 Quantum Mechanics Notations

Expectation:  $\langle a \rangle$

Bra:  $\langle a|$

Bra:  $\langle a, b, c|$

Bra:  $\langle \phi = 0|$

Ket:  $|b \rangle$

Braket  $\langle a|b \rangle$

Also  $\langle a|f|b \rangle$

## 3 Absolute Values

abs  $|a|$

norm  $||a||$

expr  $|a| - |b|$

nested  $||a| - |b||$

non-nested  $a|a| + b|b| + c|c|$

## 4 Mixtures that look like QM

abs and rel:  $a < c|c|$

worse  $|a| < \min \left| z \pm (z^2 - 1)^{1/2} \right|$

## 5 In equation

$$|A\rangle = |B\rangle + |C\rangle$$