

# Heisenberg's Uncertainty Principle by Jonny Berliner

Capo on 2<sup>nd</sup> fret

Intro - **Dmaj7 Bm6 E9 A7(#5) x2**

## Dmaj7

The quantum world can be a touch absurd,

**Bm6**

Describable in numbers but nonsense in words,

**E9 A7(#5)**

Where waves are really particles and particles are blurry,

**Dmaj7 Bm6 E9 A7(#5)**

What can we infer from all of this.

Everett said that there are infinite realities,

The Copenhagen explanations sounds like insanity,

With consciousness effecting wavy particle dualities,

But the actualities are rather mysterious,

## Bridge

**Bm**

There is a principle that there ain't no denying

**B7**

So learn from Werner Heisenberg and you will be flying

**G G#dim**

If you want a formula that you can rely on,

**A7**

Then I got one for you.

## Chorus

**Dmaj7 D#m7(b5) Bm6 E9 A13 Dmaj7 Bm6 E9 A7(#5)**

With Heisen - berg's Un - certainty Principle you can be uncertain for sure,

**Dmaj7 D#m7(b5) Bm6 E7 A7**

With Heisenberg's Uncertainty Principle you know where you are and what's more,

**G G#dim**

If you know where you are, you can't know your momentum,

**F#dim B7**

Even if you're Niels Bohr (he's smart),

**G G#dim A7 Bb7 B7**

But you can certainly be certain how uncertain you are sir,

**E7 A7 Dmaj7 Bm6 E9 A7(#5)**

With Heisenberg's Uncertainty Law

When you are measuring little things,

There's a limit to how accurate you're measuring,

Its defined by an equation and the equation really swings,

So I'll sing it and you can see.

The standard deviation of the postion's imprecision,

Times the standard deviation of the momentum's imprecision,

Is greater than or equal to reduced Plancks constant over 2,

It works the same for time and energy.

## Bridge

## Chorus