

# 11. TIME IS RELATIVE

## **CARTWHEEL**

SO, FAMILY COMES FIRST IN MIND?

(WHIRLPOOL meditates.)

### WHIRLPOOL

T OVER SQUARE ROOT OF ONE MINUS VELOCITY SQUARED DIVIDED BY THE SPEED OF LIGHT SQUARED.

(Tapping the ground.)

Live with me in the millennium.

(CARTWHEEL sits and poorly meditates.)

## **CARTWHEEL**

You have Singularity's chakras...

### WHIRLPOOL

T OVER SQUARE ROOT OF ONE MINUS VELOCITY SQUARED DIVIDED BY THE SPEED OF LIGHT SQUARED.

The focal point is to think about our relatives.

## **CARTWHEEL**

*Under the cube root of one times speed...?* I'm slow as time... Drop this meditation. We're not bending from our objective.

## **WHIRLPOOL**

And that is to make amends with our family...

### **CARTWHEEL**

Get bent.



#### WHIRLPOOL

Bent or straight, time points towards the end. Let's ride the rest of it out with our loved ones.

TIME'S FOR FAMILY; THAT'S WHY LIFE AIN'T FAST WITHOUT THEM.

## **CARTWHEEL**

SINCE TIME GETS REAL SLOW, THEN LIFE IS LONGER WITHOUT THEM.

#### WHIRLPOOL

THAT AIN'T HOW TIME WORKS.

### **CARTWHEEL**

FAMILY'S NOT IN THE EQUATION.

WHIRLPOOL

CHANGE IS.

**CARTWHEEL** 

CHANGES?

### WHIRLPOOL

YOU'LL CHANGE IN TIME.

T OVER SQUARE ROOT OF ONE MINUS VELOCITY SQUARED DIVIDED—

(CARTWHEEL strikes WHIRLPOOL.)

(WHIRLPOOL blocks CARTWHEEL's strike.)



## WHIRLPOOL (cont.)

TIME IS RUNNING OUT, YET TENSOR CALCULUS STRAINS YOU.

### **CARTWHEEL**

NO ATTENTION SPANS FOR REALITY THAT PAINS ME. EACH MOMENT'S LOST TIME...

### WHIRLPOOL

FAMILY'S IN OUR EQUATION.
THEY MAKE UP OUR SOCIAL CONSTRUCT.

(CARTWHEEL gets up and walks away. They rotate counterclockwise.)

#### **CARTWHEEL**

DOWNTIME.

(WHIRLPOOL spirals clockwise in place.)

**CARTWHEEL** 

WHIRLPOOL

I CAN'T FACE TIME.

PLEASE DO FACE TIME.

#### WHIRLPOOL

Time goes slower the further you move into one's gravity. So, your black-hole heart is younger than how you look. Really, you're naïve and scared on the inside. Life went by fast when the family was together. One millennium, you were baby Cartwheel. The next, you're a teen with hands on the wheel. The same goes for Milky Way. However, we ain't present for our baby sibling. We will miss their stages of development, from height to psyche. Sure, you yourself ain't grown a bit. But get it through your head that there will someday be no time.



#### **CARTWHEEL**

Let's steer away from the time dilat—*Dilemma*, that we face. Milky Way will outgrow our neglect. Past, present, and future, all we need is each other. You'll come around to it.

#### WHIRLPOOL

TIME'S TOO RELATIVE.
WE NEED TO SEE OUR FAMILY.
YOU'LL KNOW IN NO TIME...

[Light slows near WHIRLPOOL while light stops near CARTWHEEL.]

### **CARTWHEEL**

T. Time... Over. Time has an influence on us all... Square. Our family square... Root. Where we come from... Of one. Our single parent... Minus velocity. Each of us leaving for another city... Squared divided. Our family is divided... By the speed of light squared. Even though we squared off, our family will truly be over once we see the light...

(CARTWHEEL reaches enlightenment.)

Time is more special than it is relative... Because unlike light, time is not passed down. Time's only here for the relationships in the moment. Triangulum may be obtuse. Milky Way may be cute. Whirlpool and I left home at the age of thirteen or so eternities near the speed of light. Milky Way was twelve eternities old. If we come back eternities later, we'll only be a few eternities older while Milky Way may be rightfully old. Time dilation... We may forever be Singularity's babies. But no matter how hard we try, nevermore family will be. Whether times are fast or slow, it doesn't change that time will pass away. I must take on this weight. We must be there for our family before we won't have time anymore. We'll know in... *No time*.

TIME'S NOT UP, RELATIVE.

(CARTWHEEL returns and lends a hand to WHIRLPOOL.)

(WHIRLPOOL accepts their hand. They stand with CARTWHEEL.)

[Their lights gradually balance one another.]



(Through a training montage, CARTWHEEL assembles the time dilation equation:  $\Delta t = \frac{\Delta t_0}{\sqrt{1-\frac{v^2}{c^2}}}$ . They share it with WHIRLPOOL.)

### **CARTWHEEL**

#### WHIRLPOOL

T OVER SQUARE ROOT OF ONE MINUS VELOCITY SQUARED DIVIDED BY THE SPEED OF LIGHT SQUARED.

(CARTWHEEL eventually earns their ring. They can perfectly cartwheel again.)

### WHIRLPOOL

TIME IS RELATIVE. FAMILY HAS COME TO YOUR SENSES.

### **CARTWHEEL**

TIME IS FAMILY, AS THERE'S LITTLE TIME LEFT WITH THEM.

## **WHIRLPOOL**

(Proudly.)

WHY WE'RE HEADING HOME?

#### **CARTWHEEL**

TIME GOES BY FASTER WHEN LIFE'S LIGHTER.

[Light forms a box like a picture frame around CARTWHEEL and WHIRLPOOL.]



# **CARTWHEEL**

TIME IS IN OUR FRAME OF REFERENCE. TIMES ARE SPECIAL FOR YOU AND ME.

(CARTWHEEL and WHIRLPOOL have a warm stance.)

**CARTWHEEL** 

WHIRLPOOL

TIME...
TIME.
LET'S NOT WASTE TIME.

[End of "Time is Relative".]

[The home returns, wheeled downstage.]