

# DIRECTOR'S SCRIPT



EL LIP SES

Book, Music, and Lyrics  
DAVID QUANG PHAM

[www.ellipsesplay.com](http://www.ellipsesplay.com)  
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For Dr. Edwin Loh,  
the Author's Longtime Instructor,  
Professor of Physics and Astronomy,  
Michigan State University





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ELLIPSES

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The Multiverse  
in a Musical  
by  
David Quang Pham



# WORKING TITLE

# PLAYWRIGHTS



## THANK YOU

Name	Role
Edward Brown, Laura Chomiuk, Andrea Ghez, Stephen Zepf	Professors of Physics and Astronomy
Prakash Agrawal, Neil Patel	Planets & Telescopes Partners
<u>Janelle Lawrence</u>	Musical Theatre Mentor
	First Reader
Alexis McKay	Original Stage Manager
	Original Dramaturg
Daniela Cobb*	SPT0615-JD
<u>Minka Wiltz</u> *	Singularity
<u>Vallea E. Woodbury</u>	Gravity
<u>Jason-Jamal Ligon</u>	Cartwheel
<u>Skye Passmore</u>	Whirlpool
Abby Holland	Triangulum
Daniel Sakamoto-Wengel	Andromeda
<u>Evan Phillips</u>	Milky Way
Isake Akanke Jeff Hathcoat Kate Jacoby Bryan Montemayor Lee Osorio <sup>2</sup> Mary Lynn Owen Sofia Palmero Lau'rie Roach Parris Sarter <sup>2</sup> Imani Vaughn-Jones <sup>2</sup>	Monday Night Development Workshops Readers*



## DEVELOPMENT

Date	Type	Site	Specifics
2017	Idea	Michigan State	Edwin Loh's AST 308 Galaxies and Cosmology
2020 8-15	Writing	Working Title Playwrights	Addae Moon's Master Class, "Generating Story Idea"
2020 10-5	Reading	Working Title Playwrights	Monday Night Critique Sessions #1-3
2020 11-13	Reading (Preview)	S.I.S.R!	Hosted by Michael Perrie Jr and Lacy Reily
2020 12-7	Reading	Working Title Playwrights	Monday Night Critique Sessions #17
2021 2-1	Reading	Working Title Playwrights	Monday Night Development Workshops #6-8

## SYNOPSIS

An astrophysics epic, ELLIPSES centers on the Galaxy family and their quest to undo the Big Bang, after a member sets it off. This coming-of-age musical follows a teenager and their dog running away from home. SPT0615-JD and Gravity, a tidal force, journey to the Edge of our Universe. The story explores the Big Crunch Theory and Hubble's Law, which states that Galaxies must distance from the Center. They are like human beings, as we want to get out and explore. The analogy is expressed through these cosmic personifications. The set has a Dome Home to represent the Center, the stage is space, and the fourth wall is the Edge. The Universe is told through the relative experience.

The teenage Galaxies begin their routine by scoping out the Edge ("[Bounce](#)"). Their parent calls them up for supper. Singularity nurtures them and their tidal dogs, but a child is missing at the table ("[Crunch](#)"). JD still looks out, tangentially wanting to go to the Edge ("[Cutting Edge](#)"). However, Singularity speaks of its perils and sends them to bed ("[Fixed Stars](#)"). Letting JD out of bed, Triangulum outlines their family values ("[Anomaly is Everything](#)"). Eager for a voyage anyways, JD finds Singularity's Big Bang Taser stashed under the rug, and deems the Fabric of Spacetime to be just as sturdy ("[Zilch](#)"). Later, Singularity assesses their children's black-hole hearts ("[Luminous](#)"). With this being the final straw, JD strikes their parent with the Big Bang Taser. Singularity goes lifeless. In the chaos, Gravity discreetly picks up Singularity's dislodged eye. Then, JD flees with Gravity to the Edge, but the Edge keeps distancing. It is like a rolled-up rug that JD keeps rolling away ("[Big Bang](#)").

Triangulum decides to journey out to the Edge with Andromeda. They instruct Cartwheel and Whirlpool to babysit Milky Way and feed the dogs. However, Cartwheel and Whirlpool heads out as well. Elsewhere, JD and Gravity are on an adventure ("[Verse](#)"). Soon, Cartwheel and Whirlpool decide to return home ("[Time is Relative](#)"). They come to find that Milky Way is missing and the dogs are unfed and upset ("[Spaghetti Horizon](#)"). Isolated and alone, Milky Way speaks to their planetary friends ("[Warp, Waves, and Wrinkles](#)"). Eventually, Triangulum and Andromeda find Milky Way in an exhausted state ("[Globular](#)"). Apparently, the Solar System has developed into a swelling. Despite Triangulum's objections, Andromeda comes to the aid of Milky Way. As a response, Milky Way becomes a Quasar ("[Fabric](#)").



A trillion years pass, and JD and Gravity are still traversing space. They find time to play fetch, and Gravity catches on JD's fugue. Through a stellar speech, Gravity explains that the point of return is far-fetched. When retrieving a star, Gravity accidentally fetches over Singularity's eye ("[Far-Fetched](#)").

From the Center, Singularity awakens ("[Point](#)").

In the following act, Singularity's backstory is evaluated as they ran away from their own Universe ("[Heat Death](#)"). Presently, JD and Gravity discuss their history as they know how to communicate. Soon, most siblings have clustered together ("[Bounce Back](#)"). They reach JD and Gravity, and take them in. JD dreams to do what their parent did ("[Apparent](#)"). Triangulum threatens to stop JD from doing so and Whirlpool destroys JD's scope ("[The Scope of Things](#)"). However, Gravity calls a wave of tidal forces to their location and they escape ("[Big Rip](#)"). Singularity comes to their rescue ("[It's About Spacetime](#)").

An eternity passes, and JD is lost more than ever without their scope. They have hit a wall while looking for the Edge. Gravity believes that one can overcome by relaxing ("[Parallax](#)"). In that spirit, the Edge unveils ("[Tangent](#)"). Surrounded by spectacles that reminds them of family, JD decides to head back and take the Edge with them. Gravity feels betrayed as they fought hard for the wide-open space, only for it to be a singularity again. They run away and JD is left returning home alone ("[...](#)"). JD tries to give back Singularity's eye when they return. However, Singularity cannot forgive JD. JD jumps off the Ellipse ("[Shed Light](#)"). In these millennia of grief, the siblings hold each other close ("[\\*](#)"). Singularity takes in their eye, restoring their depth perception. Singularity looks beyond. JD sheds light in an ellipse full of Galaxies. ("[Hearts in the Right Place](#)").

All of a sudden in JD's honor, Gravity returns with a wolfpack. The Galaxies and the tidal forces end time in this epic showdown ("[The Spaghettification of Zenith](#)"). When all is lost, Singularity and their Galaxies pray at their table in the Center of our Universe as the tidal forces consume them ("[Big Crunch](#)"). In the darkness, a bang is seen and heard again ("[Big Bounce](#)").

The supermassive heart of the story is the Big Bang Theory and finding oneself after it, as an anomaly and a family.



## CHARACTER BREAKDOWN

○ Androgyny and Astronomy ○

<b>Character</b>	<b>Nature</b>	<b>Identity</b>
<u>SINGULARITY</u> The relativistically impossible single parent. Singularity wants to keep the oneness of the Universe.	Super Infinite Black Hole A tidal dog. Gravity wants to ground the wide-open space.	Adult
<u>GRAVITY</u> A tidal dog. Gravity wants to ground the wide-open space.	Tidal Force	Any
<u>SPT0615-JD</u> The distant galactic sibling. JD wants to shed light and be apparent to the lightless.	Embryonic Galaxy	Young Adult
<u>CARTWHEEL</u> The aerobic galactic sibling. Cartwheel wants to earn their ring.	Ring Galaxy	Teenager
<u>WHIRLPOOL</u> The anaerobic galactic sibling. Whirlpool wants to spiral into risk control.	Grand-Design Spiral Galaxy	Teenager
<u>TRIANGULUM</u> The jingoistic galactic sibling. Triangulum wants to be the role model.	Spiral Galaxy	Teenager
<u>ANDROMEDA</u> The scenic galactic sibling. Andromeda wants to find the pearl in this universal oyster.	Spiral Galaxy	Teenager
<u>MILKY WAY</u> The angelic galactic sibling. Milky Way wants to make themself useful.	Barred Spiral Galaxy	Preteen

### Ensembles

<u>TIDALS</u>	<u>SOLAR SYSTEMS</u>	<u>MULTIPLICITIES</u>
	Sun (Singularity)	Invariant
	Earth (ensemble)	Fix
	Jupiter (Whirlpool)	Abell*
	Saturn (Cartwheel)	
	Uranus (Triangulum)	
	Eris (JD)	
	Oort Cloud (Andromeda)	

### BRIGHT IDEA\*

<u>ABELL 2261</u> An anomalous galactic sweetheart beyond the Edge of the Universe. Abell is JD's timely loved one in the audience. They may not have a heart or a supermassive black hole, much like the Multiplicities.	Elliptical Galaxy	Onlooker
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## TIDALS

Tidals are tidal forces personified as canines. Over the course of the story, the dogs evolve into wolves.

The barks and woofs of Tidals are uttered by barking: "Force." Their howls are uttered by howling: "Fall." Singularity and most Galaxies cannot converse with the Tidals. Along JD's and Gravity's voyage to the Edge of the Universe, JD eventually understands the tidal language.

## SOLAR SYSTEMS

Solar Systems are celestial bodies that speak to Milky Way when they wander the Universe alone. They are like imaginary friends, before these planetary friends physically come to life as puppets and dancers. During the first act, they speak for several billion years (quarter-hour staging time) before the Sun becomes a red giant (zit). Any set of cast members may voice the general Solar System. The principal casts are marked in parentheses for convenient doubling.

## MULTIPLICITIES

Multiplicities are coupled Galaxies seated in the audience of the theatre. Invariant and Fix are Singularity's parents. Singularity was born and raised by them in another universe. In that Universe, Galaxies do not have a heart and are constantly shedding light. Singularity was an anomaly there, as they hold light within their inescapable heart. Big Bang Tasers are produced by these Multiplicities, as they are laws of physics enforcers in a universe made up entirely of electricity. In "Heat Death," the Multiplicities cry out for Singularity, after Singularity runs away to our Universe.

# MUSICAL NUMBERS

<b>#</b>	<b>Page</b>	<b>Title</b>	<b>Characters</b>	<b>○Present but unvocal</b>
1.	16	<u>Bounce</u>	JD   CARTWHEEL   WHIRLPOOL   TRIANGULUM ANDROMEDA   MILKY WAY   SINGULARITY	
2.	24	<u>Crunch</u>	SINGULARITY   CARTWHEEL   WHIRLPOOL   TRIANGULUM ANDROMEDA   MILKY WAY   JD   GRAVITY   <i>tidals</i>	
3.	25	<u>Cutting Edge</u>	JD   CARTWHEEL   WHIRLPOOL   TRIANGULUM ANDROMEDA   MILKY WAY   GRAVITY   SINGULARITY	
4.	33	<u>Fixed Stars</u>	SINGULARITY   WHIRLPOOL   JD   CARTWHEEL TRIANGULUM   ANDROMEDA   MILKY WAY	
5.	39	<u>Anomaly is Everything</u>	TRIANGULUM   JD	
6.	42	<u>Zilch</u>	JD   <i>tidals</i>	
7.	47	<u>Luminous</u>	SINGULARITY   JD   CARTWHEEL   WHIRLPOOL TRIANGULUM   ANDROMEDA   MILKY WAY	
8.	49	<u>Big Bang</u>	JD   SINGULARITY   GRAVITY   WHIRLPOOL   CARTWHEEL TRIANGULUM   ANDROMEDA   MILKY WAY   <i>tidals</i>	
9.	64	<u>Verse</u>	JD   GRAVITY	
10.	74	<u>Time is Relative</u>	CARTWHEEL   WHIRLPOOL	
11.	83	<u>Spaghetti Horizon</u>	CARTWHEEL   WHIRLPOOL   <i>tidals</i>   SINGULARITY	
12.	90	<u>Warp, Waves, and Wrinkles</u>	MILKY WAY   solar systems	
13.	96	<u>Globular</u>	ANDROMEDA   TRIANGULUM	
14.	99	<u>Fabric</u>	TRIANGULUM   ANDROMEDA   MILKY WAY   <i>tidals</i>	
15.	107	<u>Far-Fetched</u>	GRAVITY   JD	
16.	112	<u>Point</u>	SINGULARITY   multiplicities   <i>tidals</i>	
17.	116	<u>Heat Death</u>	SINGULARITY   multiplicities	
18.	130	<u>Bounce Back</u>	CARTWHEEL   WHIRLPOOL   TRIANGULUM   ANDROMEDA MILKY WAY	
19.	149	<u>Apparent</u>	JD   ABELL	
20.	153	<u>The Scope of Things</u>	TRIANGULUM   CARTWHEEL   WHIRLPOOL   MILKY WAY JD   GRAVITY   ANDROMEDA	
21.	156	<u>Big Rip</u>	JD   GRAVITY   CARTWHEEL   WHIRLPOOL   TRIANGULUM ANDROMEDA   MILKY WAY   <i>tidals</i>	
22.	159	<u>It's About Spacetime</u>	SINGULARITY   CARTWHEEL   WHIRLPOOL   TRIANGULUM ANDROMEDA   MILKY WAY	
23.	164	<u>Parallax</u>	GRAVITY   JD	
24.	167	<u>Tangent</u>	JD   GRAVITY	
25.	172	<u>...</u>	GRAVITY   <i>tidals</i>   JD	



<b>#</b>	<b>Page</b>	<b>Title</b>	<b>Characters</b>	<b>oPresent but unvocal</b>
26.	181	<u>Shed Light</u>	JD SINGULARITY GRAVITY TRIANGULUM CARTWHEEL WHIRLPOOL ANDROMEDA MILKY WAY	
27.	185	*	WHIRLPOOL ANDROMEDA CARTWHEEL MILKY WAY TRIANGULUM SINGULARITY	
28.	187	<u>Hearts in the Right Place</u>	JD SINGULARITY TRIANGULUM ANDROMEDA MILKY WAY WHIRLPOOL CARTWHEEL ABELL multiplicities	
29.	188	<u>(The Spaghettification of) Zenith</u>	GRAVITY SINGULARITY CARTWHEEL WHIRLPOOL  TRIANGULUM ANDROMEDA MILKY WAY tidals	
30.	196	<u>Big Crunch</u>	SINGULARITY WHIRLPOOL CARTWHEEL TRIANGULUM ANDROMEDA MILKY WAY tidals	
31.	199	<u>Big Bounce</u>	COMPANY	
		<u>Able</u>	ABELL	

## MUSICAL CHARACTERIZATIONS

SINGULARITY| The hums are the longing melodies in "Heat Death":  
D3-5 B2-4 C#3-5 G#2-4 E2-4 F#2-4 G#2-4 F#2-4

TRIANGULUM| Associative Instruments: Triangle, Handbell

MILKY WAY| Associative Instrument: Cowbell (may be attached to Milky Way's physicality or personality)

CARTWHEEL| Associative Instruments: Jingle Ring Tambourine,  
Jingle Bell

ABELL| Leitmotif from "Able" whenever Abell is focused upon.  
"Able" is in the second phrase in "Hearts in the Right Place."

## SCENES

<b>Act</b>	<b>Page</b>	<b>Location</b>	<b>SET props</b>
Ii	15	The Center of the Universe	DOME HOME RUG(dark) SEATS(7) TABLE balls Big Bang Taser dishes knapsack monoculars(2) snow globe whoopie cushion
Iii	64	The Fabric of Spacetime	FIELD EQUATIONS (including $f = ma$ , $v = H_0 D$ , $\Delta t = (\Delta t_0) / \sqrt{1 - v^2 / c^2}$ ) knapsack magnolia flowers(2) monoculars(2)
Iiii	83	The Center of the Universe	DOME HOME RUG SEATS(6) TABLE Singularity's body glasses on the rug
Iiv	85	The Fabric of Spacetime	balls knapsack monoculars(2) dishes eyeball
Iv	112	The Center of the Universe	DOME HOME SEATS(1) TABLE RUG glasses on the rug
Iii	116	Singularity's Past Universe	DOME HOME Big Bang Taser fabric(dark)
Iiii	126	The Fabric of Spacetime	balls eyeball knapsack
Iiiii	141	The Continuum Checkpoint	3 DOMES [left: doghouse, central: sleeping quarters, right: command post] balls knapsack snow globe
Iiiv	161	The Fabric of Spacetime	FIELD EQUATIONS (including $d = 1 / p$ ) balls
Iiv	167	The Edge of the Universe	ENCHANTED AND SOFT UNIVERSE balls
Iivi	174	The Center of the Universe	DOME HOME RUG SEATS(6) TABLE Big Bang Taser mirror snow globe
III	199	A Fresh Universe	DOME HOME RUG SEATS(6) TABLE balls knapsack snow globe



## SETTINGS

### THE CENTER OF THE UNIVERSE

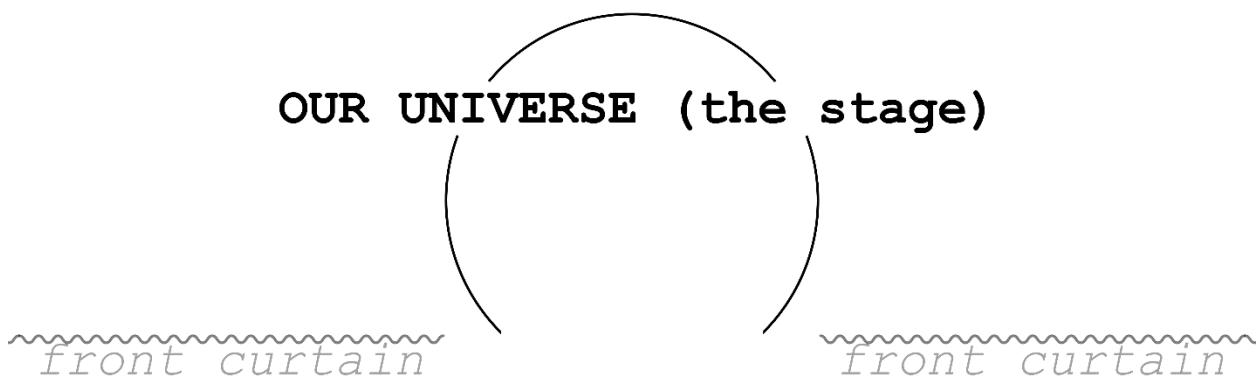
Pre-Big Bang & Big Bounce



Post-Big Bang



### OUR UNIVERSE (the stage)



where JD "sheds light"

high-rise pad

landing pad

COVER

ABELL

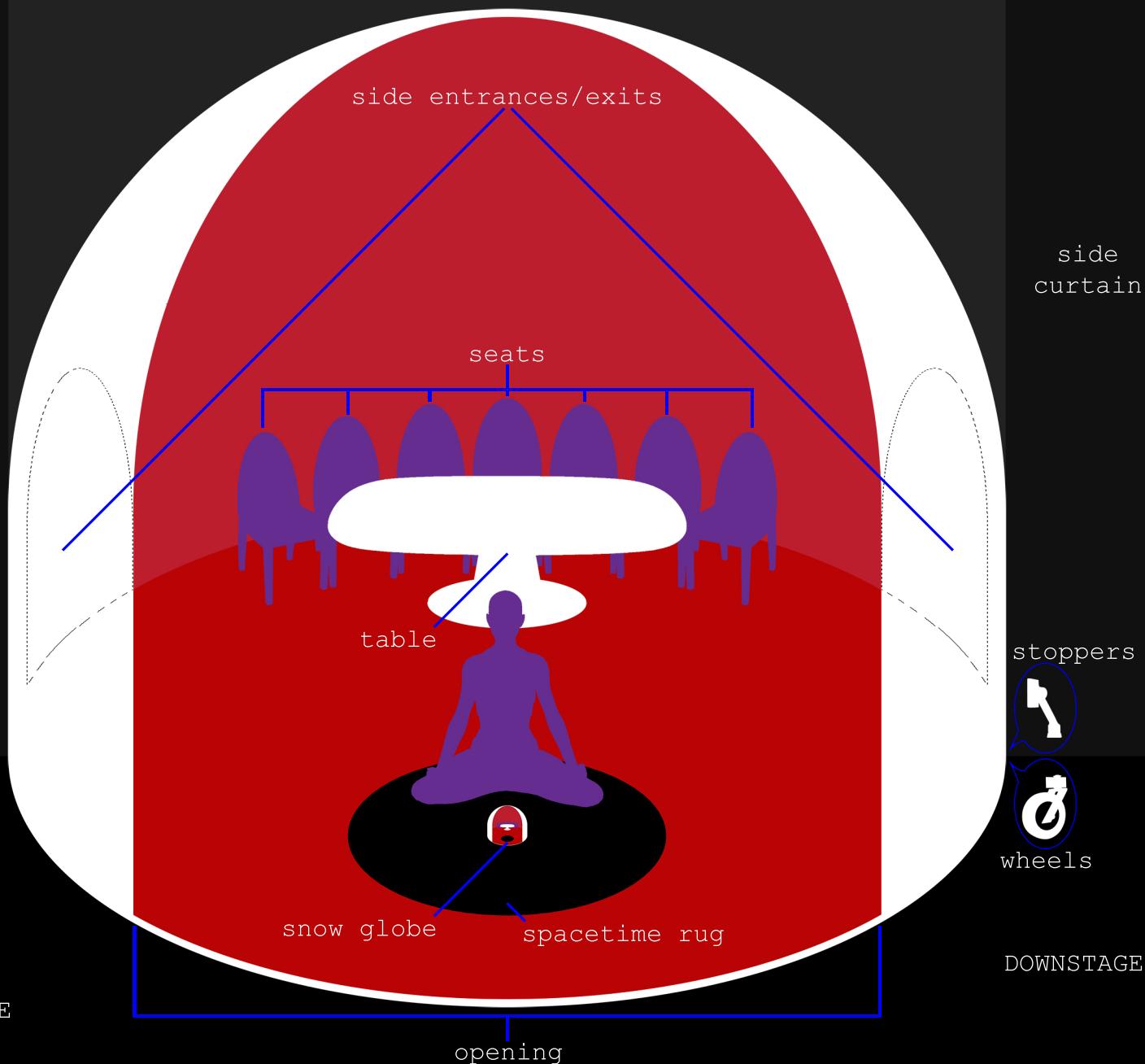
ORCHESTRA PIT

INTERDIMENSIONAL PLANE/DITCH

INVARIANT FIX Young SINGULARITY

MULTIPLICITIES' UNIVERSE  
(the audience)

## THE ELLIPSE / DOME HOME





## THE CONTINUUM CHECKPOINT

Doghouse



Sleeping Quarters



Command Post





# ACT I



[*The Center of the Universe*]

[*The Dome is positioned downstage center. There is a table with seats and a rug inside. Lights dwell solely within the home. Outside, the stage is off limits. Everything upstage is concealed by the side curtains.*]

(*SINGULARITY hums and meditates on the rug.*)

(*The MULTPLICITIES are in the audience.*)

**MULTPLICITIES**

Nothing.

(*SINGULARITY pulls out the Big Bang Taser from underneath the rug. They aim it outwards. They ignite the Big Bang Taser.*)

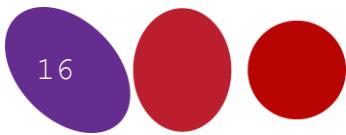
(*The TIDALS distantly whimper.*)

[*The lights flicker. The side curtains ripple. Field equations loom in the space, like a field of flowers. The Universe flashes their wonder.*]

(*From the audience, ABELL enters. They sit in a front row seat.*)

(*SINGULARITY stops the Big Bang Taser.*)

[*The Universe returns to normal.*]



(*SINGULARITY stows away the Big Bang Taser under the rug. They look upon ABELL. They beat their heart.*)

**SINGULARITY**

Nothing...

(*Leaving through the side exit.*)

**1. BOUNCE**

[*In the audience, a particle of light momentarily rests on ABELL.*]

(*JD arrives, carrying two monoculars. They position themself at the edge of the home. They look out through both monoculars.*)

(*TRIANGULUM wanders out, carrying a snow globe that resembles the home. They head to JD. They notice that JD holds two monoculars. They snatch one. They look out through it.*)

**TRIANGULUM**

NOTHING.

(*Tossing the monocular.*)

(*WHIRLPOOL spirals out. They catch or pick up the monocular. They look out.*)

**WHIRLPOOL**

NOTHING!

(*CARTWHEEL cartwheels out. They snatch the monocular from WHIRLPOOL. They look out.*)

**CARTWHEEL**

NOTHING!

(*ANDROMEDA pops out.*)

(*CARTWHEEL hands the monocular to ANDROMEDA.*)

**ANDROMEDA**

NOTHING!

(*Stowing away the monocular.*)

(*MILKY WAY is disheveled. They stroll in.*)

**MILKY WAY**

NOTHIN'...

(*The GALAXIES not JD cluster in the center.*)

**GALAXIES not JD**

LET'S BOUNCE!

(*Bouncing away from each other. They land on their respective walls. They distinctly move and dance alongside the walls of the home. They distinctly pose or slow down whenever the melody has rests. Through choreographic exposition, they detail themselves perfectly. Now, all they need are their names.*)

(*SINGULARITY remains absent.*)

**SINGULARITY**

MILKY WAY!

(*MILKY WAY lugs their way to the table.*)

**SINGULARITY** (cont.)

ANDROMEDA!

(*ANDROMEDA heads to the table.*)

TRIANGULUM!

(*TRIANGULUM triangulates to the table. They set the snow globe on the table.*)

WHIRLPOOL!

(*WHIRLPOOL spirals to the table.*)

CARTWHEEL!

(*CARTWHEEL cartwheels to the table.*)

JD!

(*JD remains staring out at the Edge.*)

**JD**

NOTHING...?

[End of "Bounce."]

(*The TIDALS prowl in and surround the table.*)

(*SINGULARITY arrives with dishes. They bow.*)

**SINGULARITY**

Declinations, family. The Galaxy family. It is that time.

(*MILKY WAY hugs SINGULARITY.*)

(*SINGULARITY places a dish on the ground.*)

(*The TIDALS feast on the dish on the ground.*)

(*The GALAXIES at the table sit themselves, and TRIANGULUM sits on the whoopie cushion.*)

(*CARTWHEEL and WHIRLPOOL hold their laughs.*)

Looks like someone enjoyed a little too much gas giants.

**TRIANGULUM**

Quit the snickers, Milky Way.

**CARTWHEEL**

The concept of time?

**WHIRLPOOL**

Hmm... What is time?

**SINGULARITY**

You would know time in a timely manner, when you meditate on it. Has any of you seen my scopes? The only place it could be is in the Center of our Universe. They have to be somewhere in this Dome Home. *This Ellipse...*

(*Looking upon the snow globe.*)

(*TRIANGULUM looks out towards JD.*)



### **TRIANGULUM**

*Least nothing is found at the Edge of our Universe, you know?*

### **ANDROMEDA**

Here, at the Center of our Universe, all we know are a bunch of asterisks, holding different pearls in their oysterous hearts. Galaxies with varying levels of brightness, shapes, and arms if they have any. Being fixed here like constellations, this glob is risky business.

*(SINGULARITY passes out the dishes.)*

### **SINGULARITY**

There is nothing to risk but your lives if you leave this Dome. If you somehow escape my gravitational pull and step out onto the Fabric of Spacetime, you'll end up ripping apart the cosmos. Then I, the grandmaster of the Universe, will be out of order. We have all the cosmic formulas we need right here in our Center. Let's stay one big happy globular. I did what any supermassive parent would do for their little nebulae and made some grub. With my wrists and black-hole heart, I cooked you all up something special. Nuclear pasta and meteors.

### **CARTWHEEL**

*Special for the trillionth millennium...*

### **SINGULARITY**

I'm especially happy that you're just as thrilled as the first millennium. Our meals are heated to almost 15 million degrees Kelvin and rotated within the prototype cosmic microwave background at the angular velocity of  $14.713 - 2.396 \sin^2 \theta$  minus  $1.787 \sin^4 \theta$  to the fourth power of its solar latitude. Strongest material in the Universe. A variety of nutrition from the crusts of neutron stars. Dismantle the mantle. But leave the core. I'd love to planet these.



(*GRAVITY tries to grab TRIANGULUM's dish.*)

(*TRIANGULUM slaps away GRAVITY*)

**TRIANGULUM**

Tidal dog... That is not for you to gravitate to.

**SINGULARITY**

Throw the dog a meteor. If a tidal force wants a swig, they can have some spaghettiification. Fix...?

(*GRAVITY obediently sits.*)

(*SINGULARITY tosses unseen food to GRAVITY.*)

(*GRAVITY devours the invisible spaghetti.*)

Who are good tidal forces? You all are!

(*The TIDALs wag their tails.*)

**TIDALS**

Force! Force! Force! Force! Force! Force! Force! Force! Force!

(*SINGULARITY tries to get the TIDALs to sit.*)

**SINGULARITY**

Fix. Fix. Fix. Fix. Fix. Fix. Fix. Fix.

(*WHIRLPOOL prepares to pray.*)

(*MILKY WAY dives into their dish.*)

**TRIANGULUM**

Again, Milky Way?

**ANDROMEDA**

Ye mostly photons, Triangulum.

**CARTWHEEL**

It takes eight millennia to burn that, Andromeda.

**WHIRLPOOL**

A simple nap ain't last any longer, Cartwheel.

**SINGULARITY**

Most of you went through a phase where you ate megatons of nuclear pasta. You want to go through accretion and be a Grand-Design Spiral Galaxy, don't you?

*(CARTWHEEL taps WHIRLPOOL on the shoulder.)*

**WHIRLPOOL**

You may be well rounded, but you ain't got spiral arms in this fight. You're filled with heavy blue stars. Ain't it ring a bell, Ring Galaxy?

**CARTWHEEL**

Gal, I don't put weight or stress on myself. Y'all are the morbidly spiral Galaxies.

*(ANDROMEDA points to TRIANGULUM.)*



### **ANDROMEDA**

Least you're not a two-dimensional square, like this Galaxy.

### **TRIANGULUM**

I'll run faster than light circles around you, Galaxies.

*(Tossing the whoopie cushion at WHIRLPOOL.)*

*(In their seats, CARTWHEEL and WHIRLPOOL demonstrate defensive stances. They bicker.)*

### **MILKY WAY**

*(Mouthful of nuclear pasta.)*

Kau tau to you, ellipsoids.

### **TRIANGULUM**

### **CARTWHEEL**

### **WHIRLPOOL**

Watch your worm hole, you quasi-Galaxy. Your primordial heart is barred.

### **SINGULARITY**

Oneness, clusters of stars! Your hearts are all vigorous.

*(Pinching MILKY WAY's cheek. This shows that MILKY WAY is SINGULARITY's favorite child.)*

Always, full of grace.

*(Preparing to pray. They place a hand on their chest. They shape that hand as though it is holding a heart. Their other hand sits flatly under their hearty hand.)*

Let us save space.

*(The nearby GALAXIES pray with SINGULARITY.)*



## 2. CRUNCH

### **SINGULARITY**

FEED THAT HOLE IN YOUR HEART.  
GIVE INTO INTERNAL DARKNESS.  
SHED OUR LIGHT FOR NO ONE.  
AS IT'S CRUNCH TIME, GALAXIES.

IN BLACK HOLES, DWELL WISDOM.  
FED BY THE SPRINKLES OF STARDUST.  
CRUSH THEIR DREAMS IN YOUR PALM.  
IT IS CRUNCH TIME, MY BABIES.

### **GALAXIES not JD**

CONSUME STAR SYSTEMS.  
CONSUME WORLDS THAT TEEM.  
CONSUMED BY THOUGHTS OF FAMILY. FAMILY...

### **SINGULARITY**

STRING BY STRING IN THEORY.  
AND FABRIC BY SPACETIME FABRIC.  
KEEP OUR LOVE AS A WHOLE.  
IT IS CRUNCH TIME, WE BELIEVE.

### **WHIRLPOOL**

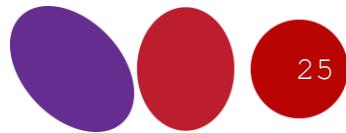
IT IS CRUNCH TIME, SINGULARITY.

### **TRIANGULUM**

IT IS CRUNCH TIME, SINGULARITY.

### **CARTWHEEL**

IT IS CRUNCH TIME, SINGULARITY.

**ANDROMEDA**

IT IS CRUNCH TIME, SINGULARITY.

**MILKY WAY**

IT IS CRUNCH TIME, NOMY/MOMMY/DADDY SING.

**SINGULARITY**

IT IS CRUNCH TIME, JD?  
SPT0615-JD?

*[End of "Crunch."]*

*(GRAVITY splits from the TIDALS. They stroll to JD, to be their canine companion.)*

**3. CUTTING EDGE****JD**

NOT THE TIME  
TO PUSH ME OVER THE EDGE...

*(GRAVITY places their paw on JD's monocular.)*

CUT INTO MY—  
PUSH ME OVER THE EDGE OF THE...

*(GRAVITY turns JD's head to the table.)*

CENTER WITH OUR  
RELATIVES.  
OUR TIDAL DOGS.

**JD (cont.)**

GRAVITY,  
ALWAYS GROUNDING ME.

(*Nearing the edge of the home.*)

YOU SEE.  
I GO OFF ON A TANGENT.

WHERE THE CUTTING EDGE WILL BE...

WHERE THE CURVATURE CONCEALS ALL WORLDS LEADING INTO  
KINSHIP.  
SAIL OUT OF THIS ELLIPSE.

WHERE THE ASTRAL BEACH WILL MEET AN OCEAN FULL OF  
CHORAL REEFS.  
SEA WITH OTHER *ELLIPSES*.

(*Drawing the attention of other GALAXIES  
with the divisive term: "ellipses."*)

WHY IS THIS CIRCLE LACKING THE CURIOSITY IN ALL?  
STUCK IN THIS HERE, GALA.

WHY ARE THESE OVALS BENT ON SEEING NOTHING IN MYSTERY?  
LOOK BEYOND THESE GALAXIES.

**GALAXIES not JD**

CUT AWAY FROM THE EDGE...

**JD**

WHY DON'T YOU GO OFF?  
ALL YOUR FIGHTS HAVE DRIVEN A WEDGE.  
PLEASE LET ME BE AT PEACE BY THE EDGE.  
GO BACK AND CIRCUMVENT.  
I'LL JUST BE OUT ON A TANGENT—

**GALAXIES not JD**

SPT0615-JD...

**GALAXIES not JD (cont.)**

AS WE ARE JUST SAYING BEFORE YOU CUT US OFF.  
NOTHING'S CUTTING OUTTA THE EDGE.  
NO ONE'S GOING OVER THE EDGE.  
JOIN US FOR CRUNCH.

*(SINGULARITY makes the GALAXIES hear JD out.)*

**JD**

APPARENTLY, I HAVEN'T MADE MYSELF CLEAR.  
CUTTING MY EDGES MAKE MYSELF APPARENT AS YOU...  
AND SHEDS MY LIGHT UPON A LIGHTLESS GALAXY.  
I WILL MAKE LIGHT OF A PROMISING FAMILY.

*(ABELL looms in the audience.)*

*(SINGULARITY allows for the GALAXIES to rebuke JD.)*

**GALAXIES not JD**

SPT0615. SIBLING.  
NO NEED TO BE APPARENT AS SINGULARITY.  
NO EDGE TO CUT AND SO NO LIGHT SHED.  
PLEASE DO NOT CUT US OUTTA YOUR LIFE.  
JOIN US FOR CRUNCH.

*(JD considers joining the family at the table but longs for the outside anomaly.)*

**JD**

I WANT TO BE IN A WARM SPACE WHERE ELLIPSES ARE ABELL...  
TO MEET A NICE GALAXY...

*(GRAVITY encouragingly grounds JD.)*

**JD**

JD...

**GALAXIEs not JD**SPT0615-  
*JADED*-**JD**

GOES OFF OF THE TANGENT!

ALL MY COSMIC POEMS MUST REACH TO THE ENDS OF THIS  
EPIC TALE.

OUR AUDACIOUS VERSE.

THERE MIGHT BE A FRIEND THAT WILL FOLLOW IN MY  
LYRICAL TRAILS  
TO THE EDGE OF THE UNIVERSE...

YOU'LL KNOW.

I'LL BE CUTTING TO THE EDGE.

*[End of "Cutting Edge."]***GRAVITY**

Force!

*(JD embraces GRAVITY.)***JD**

Grounded. You're my tidal force, Gravity...

*(SINGULARITY accompanies JD.)***SINGULARITY**

I will spare a millennium to listen to your verse, JD. You are apparent to me.

**JD**

I love you too, Singularity...

## SINGULARITY

Your love doesn't seem crystal clear. What speaks to your heart?

*(JD sentimentally looks out.)*

**JD**

Abell...

## SINGULARITY

Able? Who's able to speak to your heart?

**JD**

You...

## SINGULARITY

'Niverse? Our Universe?

**JD**

Speak down to me. And our Universe no longer speaks for me.

## SINGULARITY

And the Edge of the Universe speaks to your Center?

*(JD nods.)*

An anomaly listening to messages from anomalies... Your eyes aren't enough for you? I'll be taking back my scope.

*(Taking the monocular from JD. They point towards the table.)*

Set your sights. We have nice Galaxies on this Ellipse.

**JD**

I'm done with this Ellipse. It's time I jump off ours and move onto another.

(*SINGULARITY hums.*)

**SINGULARITY**

You're about to make me cry with that nonsense. The Edge will cut into our lives and split this family apart. What is the Edge telling you, child?

**JD**

That I'm no longer a child and my center no longer cares.

**SINGULARITY**

Baby... You dare speak about your center that way?

**JD**

I'm not a baby anymore. As your first child, there's no longer anything central about our Ellipse anymore. It's time I formed my own center.

**SINGULARITY**

Why would you need your own center?

**JD**

The same could be asked for you.

(*SINGULARITY pulls JD to the table.*)

**SINGULARITY**

I need you all, as family would. I'm a single parent but not a single person.

(*GRAVITY pulls back JD.*)

**JD**

I need to go, as anomalies should. I'm singled out, yet not a single person can stop me...

**SINGULARITY**

Gravity, do you feel the same way about your tidal pack?

(*The TIDALS join SINGULARITY.*)

**GRAVITY**

(*Assertively.*)

Force! Force! Force!

(*Trying to corral the Tidals. They turn to the opening of the Ellipse and run into an invisible wall. They dizzily fall back.*)

**JD**

Gravity!

(*The TIDALS hopelessly look on.*)

**CARTWHEEL**

Ooh Gravity may feel like you.

**TRIANGULUM**

We sure hope you don't feel like Gravity.

(*GRAVITY smells the rug. They tap the rug.*)

**SINGULARITY**

Gravity will never learn. Andromeda, leash our Tidals. You and our tidal dog are never leaving our elliptical doghouse's dense gravitational pull.

*(ANDROMEDA clusters GRAVITY and the TIDALS.  
They escort them out.)*

**JD**

What must be done to pull at your heartstrings?

**SINGULARITY**

Oh now you want to consider my center...

**JD**

Yours and our centers hold all the light in this Universe. You've shed enough light upon us. I need to shed mine.

**SINGULARITY**

*(Mumbling.)*

*Your hearts are supermassive black holes for a reason. It's meant to hold that light in. Why else would I raise you...?*

*(Clarifying.)*

If it suits you. You can shed light... While staying put. Fix yourself.

**JD**

Gravity is the one to ground me. Not you. That's not fair!

**MILKY WAY**

Is JD gonna get us all grounded again?

**SINGULARITY**

You have one another to keep each other in check. I'd like my clusters of stars to remain fixed in the position of this space. If only you knew how stellar you have it. There were beings that didn't take kindly of my stars and cells orbiting and moving through my veins and into my heart. When I was a baby Galaxy like you all, all I was is an anomaly.

**JD**

Well now all of us has anomalous anatomies. But yours make up the single worst being in our Universe, especially when there's no other being around in this Ellipse.

**SINGULARITY**

I might not be the best parent, but I am better than the ones I had.

**JD**

You had a single parent of your own, Singularity? That doesn't seem at all apparent.

**SINGULARITY**

Clearly, I am more apparent than you will ever be.

**4. FIXED STARS****JD**

FOR ME,  
A STAR NEEDS TO MOVE.  
WHAT A STAR NEEDS TO DO.  
AS THIS STAR NEEDS NO FIX.  
THIS HERE STAR NEEDS TO RESTART.

**SINGULARITY**

YOU'RE GROUNDED!  
BE FIXED STARS.  
OFF TO BED!  
FIX YOURSELVES.  
YOU'LL BE DEAD  
AT THE EDGE.

**JD**

FOR US...

*(JD and SINGULARITY argue over one another.)*

**SINGULARITY**

ARE YOU DEAF?  
BE FIXED STARS.  
YOU'RE SO DAFT.  
FIX YOURSELVES.  
YOU'RE THE DEATH  
OF US ALL.

**JD**

A STAR NEEDS TO MOVE.  
WHAT A STAR NEEDS TO DO.  
AS THIS STAR NEEDS NO FIX.  
THIS HERE STAR NEEDS A NEW START.

*(Heading off to the offstage bedroom.)*

**SINGULARITY**

THINK OF THE FIXED STARS.  
LEARN FROM THE FIXED STARS.  
STAY LIKE THE FIXED STARS...

Fix yourself.

**SINGULARITY** (cont.)

I WON'T BE FIXED TO...  
I CAN'T RETURN TO—  
I WILL NOT GO ON...

A tangent and neither can you.

**WHIRLPOOL**

*Return to...?*

*(JD briefly peeks out to overhear WHIRLPOOL.)*

**SINGULARITY**

Fix yourselves.

*(CARTWHEEL routinely clusters the remaining GALAXIES away into their offstage bedroom.)*

FIXED STARS FOR A CHANGE.

*(Departing.)*

[End of "Fixed Stars."]

*(TRIANGULUM brings out JD.)*

**TRIANGULUM**

You're quite the anomaly, you know? Do you have a millennium?

**JD**

What are you going to mill about now?

**TRIANGULUM**

Mill? I triangulate.

**JD**

It's rather late to try my patience...

**TRIANGULUM**

We've been here for what? An eternity?

**JD**

Seems like it. Well, really it.

**TRIANGULUM**

What do you see in your future?

**JD**

I see everything. I don't see this dysfunctional family.

**TRIANGULUM**

You're more like the dysfunctional anomaly. Our family functions in this Ellipse. I understand that you may be the oldest sibling in this household and that after a while, you start to see other things. Where do you see yourself in the future?

**JD**

With Abell.

**TRIANGULUM**

With *able*? Where would you *able* to see yourself in the future?



**JD**

Amongst everything. Every moment here is truly nothing.

**TRIANGULUM**

Nothing? Well, you're an anomaly if you feel that way about family. As Singularity said, you have it stellar. We like anomalies around here. Shed some light on this *nothingness*.

**JD**

Every millennium, Cartwheel, Whirlpool, Andromeda, Milky Way, and you say there is nothing out there. I believe in *nothing*.

**TRIANGULUM**

And you said *nothing is family*. We're as dense as dark matter. Stranger or *dark matter*, I will not let anything, whether familiar or unfamiliar, get passed me and fall off the Edge of the Universe...

**JD**

For peek's sake, I'm not going over the Edge.

**TRIANGULUM**

For the sake of peak, we're already on top.

**JD**

How would you know we're not upside down and under a valley?

(*TRIANGULUM inadvertently steps on the rug.*)

**TRIANGULUM**

There is no value to what is hidden underneath this Ellipse.

**JD**

Quick to judge and not fastidious.

**TRIANGULUM**

You've gradually milled about and haven't reached a conclusion.

**JD**

Something is hidden. Some things are underneath.

**TRIANGULUM**

Hidden are no things. Underneath is nothing.

**JD**

*Nothing* is everything to me.

**TRIANGULUM**

If only family is nothing to you! You outlier! Sorry for turning your— Our Universe upside down. JD, I'm just like you... *Not a square*. Also, far out. But again, outlier... I am seen. While you, you need this, to feel seen. To see *everything*.

*(Pulling out a monocular.)*

*(JD fails to take the monocular.)*

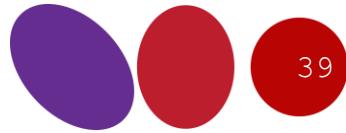
**JD**

Triangulum, what do you need?

*(TRIANGULUM pockets the monocular.)*

**TRIANGULUM**

I need you to treat family... Like nothing.



## 5. ANOMALY IS EVERYTHING

### TRIANGULUM

FAMILY IS...  
 FAMILY IS...?  
 FAMILY IS...  
 FAMILY ISN'T...  
 FAMILY IS NOT...

*(JD grows saddened.)*

ANOMALY.

FAMILY IS EVERYTHING YOU KNOW.  
 FAMILY IS EVERYTHING, YOU KNOW?  
 FAMILY IS EVERYTHING. YOU KNOW  
 NOT WHAT IS EVERYTHING.  
 NO SUCH THING  
 THAT IS JUST  
 FAMILIARITY.

*[The spotlight lands on JD.]*

ANOMALY IS YOUR THING,  
 FROM THE WAY YOU MOVED TO THE WAY YOU UNDERSTOOD.  
 ANOMALY IS OUR THING,  
 LIKE THIS DOME HOME YOU WANT TO LEAVE AND YET LIVED.

*(Bringing out the snow globe. They smirk.)*

REALLY, FAMILY IS EVERYTHING TO US.  
 FAMILY IS EVERYTHING.

*(JD may have interjected prior.)*

**JD**

WE KNOW.

**TRIANGULUM**

FAMILY'S UNIVERSAL. WE KNOW  
THAT YOU FEEL LIKE NOTHING.  
WELL, THE THING  
IS THAT WE'RE ALL HOMES TO  
FAMILIES.

*(Shaking the snow globe. They set down the snow globe on the table.)*

*[A galaxy may project into their home.]*

*(TRIANGULUM brings out a stellar ball.)*

ANOMALY IS EVERY CELL,  
FROM THE PLANETS TO THE COMETS IN STAR SYSTEMS.

*(Stowing away the ball. They direct to the projected galaxy and/or their body parts.)*

ANOMALY IS EVERY VEIN,  
WITH ITS INTERGALACTIC SUPERHIGHWAY SYSTEMS.  
ANOMALY IS OUR HEARTS.  
BLACK HOLES ROOTED IN US, WHILE YOURS JUST STEMS.

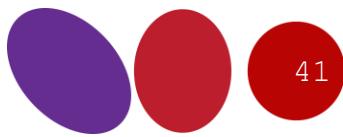
*(JD feels trapped in the system.)*

*[The projected galaxy fades away.]*

*(Returning to the premise. They slowly and gloomily turn away from JD.)*

AGAIN, ANOMALY IN EVERY THOUGHT,  
FROM YOUR VIEWS THAT SHIFT TO YOUR POINTS WITH NO  
ROUND TRIPS.  
ANOMALY IN EVERY SPACE,  
LIKE THIS CENTER YOU NEED TO FEEL, YET BELIEVED.

*(Tapping their heart or unintentionally motioning towards the table.)*



(*JD somberly sits at the table. They place two fists next to the snow globe to allude to an ellipsis...*)

**TRIANGULUM** (cont.)

ANOMALY'S IN EVERYONE,  
INCLUDING US BUT ESPECIALLY YOU YOU YOU.

(*Turning to JD.*)

JD?

(*Poignantly looking upon JD. They encouragingly join JD at the table. They sit on the whoopie cushion.*)

(*CARTWHEEL and WHIRLPOOL distantly laugh.*)

(*TRIANGULUM appears flustered. They shift to delight. They pull out the whoopie cushion.*)

ANOMALIES ARE GAS GIANTS!

(*Stowing away the whoopie cushion. They grab the snow globe. They take JD to the rug.*)

ANOMALY'S OUR SPACETIME!

ANOMALY IS EVERYTHING.

(*Worriedly looking out.*)

(*ABELL looms in the audience.*)

(*Earnestly holding onto JD.*)

NOTHING IS ANOMALY LIKE FAMILY.

(*Handing the snow globe to JD. They head off to bed with the monocular.*)

[End of "Anomaly is Everything."]

**6. ZILCH****JD**

NOTHING, NOTHING, NOTHING.  
 NOTHING? NOTHING? NOTHING?  
 NOTHING, NOTHING, NOTHING.  
 ZILCH. NOTHING.

*(Holding the snow globe up to their eye.)*

RETURN, RETURN, RETURN.  
 TO WHERE? TO WHERE? TO WHERE?  
 SOMETHING, SOMETHING, SOMETHING.  
 ZILCH. SOME THINGS

ARE FAMILIAR.  
 OUR NOMY'S/MOTHER'S/FATHER'S A LIAR.  
 SINGULAR—

*(Placing the snow globe on the rug.)*

UNDERNEATH...

*(Orbiting the snow globe.)*

I AM ZILCH.

WHO'S FAMILIAR  
 BEING AN OUTLIER.  
 IT IS ME,  
 WHOSE FAMILY IS  
 SOMETHING OLD, OUTDATED.  
 EXCEPT ME.

*(Kicking up the rug over the snow globe.)*

UNDERNEATH...

*(Discovering the hidden BB Taser underneath.  
 They warily kneel to pick up the BB Taser.)*

THERE IS ZILCH?

*(The TIDALs remain absent.)*

**TIDALS**

(*Terrified.*)

Fall...

**JD**

Matters beyond assimilation? Why are you here?

(*Reading the inscriptions on the BB Taser.*)

I FOUND A  
BB... BB TASER?

(*Igniting the BB Taser, letting the static ripple through the soundscape.*)

Forces beyond imagination? Where does it go from there?

I FEEL THE  
BBT... BIG BANG THEORY.

Light. Illuminating...

[End of "Zilch."]

(*SINGULARITY remains absent.*)

**SINGULARITY**

Zilch. Shocking...

(*JD stows away the BB Taser in their clothes. They swiftly unroll the rug back to its initial position, with the snow globe on it.*)

(*SINGULARITY enters. They bow.*)

To see you wide and first awake. Declinations, JD.

(*JD bows.*)

**JD**

Declinations, nomy/mother/father. You're always looming over us... You poured the light out of your heart to raise me and my siblings. Lights that last eternities. All the light that this Universe holds, and more. I was never enlightened to why that's the nature of your heart. We call our hearts "supermassive black holes" for a reason. A dark void that won't let light escape unless there's another matter, bigger than ourselves. Like us to you. You let your light escape for us. May you shed some light—

**SINGULARITY**

What is there left to shed light on...? What is the matter? *Who?*

**JD**

Yourself...

**SINGULARITY**

Stop making light...

**JD**

Light isn't made. It's passed down. And making light of what?

**SINGULARITY**

My eternity.

**JD**

What was eternity like before me and my sibling's eternities?

**SINGULARITY**

*(Irritably.)*

Oh, the luminosity...

**JD**

Where did you get it? All that light. For me as a Galaxy, you have provided that light. That also means, you inherited them...?

**SINGULARITY**

Speak physics, SPT0615-JD.

**JD**

Did this light get passed down from your parent?

**SINGULARITY**

My heartless parents...

**JD**

Parents? You had multiple parents? Can I meet my grandparents...?

**SINGULARITY**

Didn't you hear me? They're heartless. And every Galaxy in this Universe has a heart. It is not possible for them to be here. Indeed, having more than one parent was supermassive and added up... To what I currently sacrifice as Singularity. When I was in their Universe, each of their love was fractional. There is everything to be proud of when raising you and your five siblings as a single parent. My love is forever wholesome.

**JD**

You were born and raised in another Universe...? Wait, you're saying that there are indeed other Galaxies out there?

**SINGULARITY**

There is nothing out there. Nothing outside of this home.

**JD**

I once saw nothing out there with my younger siblings. But as I got older, I truly knew that nothing is in here.

**SINGULARITY**

Are you saying that family means nothing to you?

**JD**

Yes. And I hope someone like me feels that way about the Center of the Universe when I have a universe of my own.

**SINGULARITY**

Oh no. The only center of any universe is here, with me and my six clusters of stars. You sure are an anomaly. My anomaly.

**JD**

I'm not sure if I have maturity. I do have your responsibility. Of letting some of my light escape... My heart.

*(SINGULARITY pulls out a monocular and hands it to JD. They point outside.)*

**SINGULARITY**

You are old enough to respond to a heartless and lightless world beyond the Edge of the Universe, by not making light of it.

**JD**

You've raised my supermassive heart by pouring light into it. My lighty heart is ready to be shared with the heartless.

**SINGULARITY**

The point of my hearty outpouring is for you to forever lighten up. Not to ever lighten down. You are never getting passed me.



**JD**

The point of your heart is inherently mine. Like you, nomy/mother/father, before my heart outgrew yours, the purpose of life is to pour my heart out to someone with less heart. The only way I can see the light is if another Galaxy lightens up. If my heart is pointless, then your heart is pointless, too. Singularity... Nothing gets passed you... Not even light.

## 7. LUMINOUS

### **SINGULARITY**

YOU REALLY SHOULD LIGHTEN UP.  
DO IT FOR YOUR SINCERITY.  
FORGIVE ME, SINCERELY.  
SINGLENESS ILLUMINATES...

*(Noticing the snow globe on the rug. They go to pick up the snow globe.)*

*(JD blocks SINGULARITY's path, so they do not discover that the Big Bang Taser was found.)*

*(SINGULARITY drags JD to the table.)*

WHY DON'T YOU ENLIGHTEN US?  
SHED SOME LIGHT TO YOUR FAMILY.  
FORGET ME, SINGULARITY.  
LET OUR CENTERS SET US STRAIGHT...

*(The other GALAXIES enter.)*

*(SINGULARITY aligns each GALAXY.)*

YOU BRIGHTEN MY ETERNITY.  
LUMINOUS.  
MY PARENTS NO LONGER LOOM.



## **SINGULARITY** (cont.)

THEY CAN'T HOLD ANY CANDLE,  
AND WOULD READILY CAST AWAY YOU AND US.

LUMINOUS.

TENDERNESS FOREVER LOOMS.

I HOLD YOUR FEATS TO THE FIRE.

LOOKING FORWARD TO WHAT COMES FOR YOU AND US.

*(Lovingly pinching MILKY WAY. They try to align JD.)*

WHAT IS ILLUMINATING ARE...

*(Addressing each GALAXY except JD.)*

Us. And us. And us. And us. And us. At the center of us all is heavy. What looms in us is light. Take it in. Our black holes.

*[End of "Luminous."]*

*(GRAVITY and the TIDALS enter and gather around.)*

*(SINGULARITY focuses on JD.)*

And you... At the center of yours, is supermassive.

*(JD scopes out the Edge of the Universe.  
They longingly see ABELL in the audience.)*

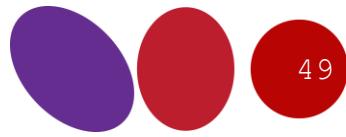
### **JD**

My heart cannot choose who to take in. However, my heart can choose who to take out.

## **SINGULARITY**

*Well taken. There's nothing to take out, but family.*

*(JD does not take it lightly.)*



## 8. BIG BANG

### **SINGULARITY**

YOU ARE A BIG...

*(JD wipes out the Big Bang Taser. They instantly shoot SINGULARITY in the face.)*

*(SINGULARITY gets electrocuted. They melodically shriek and jerk in place.)*

*MISTAKEEEEE! AKE! AKE! AKE! AKE.*

*[The light fluctuates within the home. Appliances may short circuit and spark.]*

### **TIDALs**

*(Repeating.)*

BIG BIG BIG BIG BIG!

*(JD regretfully drops the Big Bang Taser.)*

*(WHIRLPOOL kicks away the Big Bang Taser.)*

*(SINGULARITY grows physically vegetative.)*

### **SINGULARITY**

ACHE... ELLIPSES...

*(Elliptically squinting.)*

BIG BANG...

*(Abruptly slamming their face onto the table. They fall into lifelessness.)*

**TIDALS**

FALL!

(Repeating.)

BIG BIG BIG BIG BIG. BANG!

[The snow globe explodes.]

[The light suddenly fills the stage. The side curtains open to reveal what's upstage.]

[It's the beginning of the Universe as we know it.]

(GRAVITY makes JD turn to what is outside.)

(JD gently walks to the edge of the home to look out, shifting from grief to wonder. They are surprised that they are now able to take a step out onto the stage.)

(GRAVITY appears to pick up a sphere by SINGULARITY's feet.)

(The GALAXIES at the table look upon SINGULARITY.)

**TRIANGULUM**

S P T OH NO. YOU...?

**CARTWHEEL**

IT HAD TO BE YOU?

**WHIRLPOOL**

WHY WOULD YOU RISK THIS UNI-

*(MILKY WAY weeps on SINGULARITY.)*

**ANDROMEDA**

OUR UNIVERSE HAS END...

*(JD approaches their sibling GALAXIES.)*

**GALAXIES not JD**

DEAD, YOU ARE.  
BIGGEST FLAW.  
BIGGER FEARS.  
BIG BRAINED FOOL.  
BIT THE HAND THAT FEEDS.  
BEAT THE HEART THAT FELT TO DEATH.

**JD**

MY SUPERMASSIVE HEART GOES OUT TO YOU ALL, FAMILY.  
BUT MY SUPERMASSIVE HEART GOES OUT FOR ME AND GRAVITY.  
DECLINATIONS!

*(GRAVITY grabs a knapsack full of balls,  
embodying stars. They grab JD and run out.)*

*(TRIANGULUM, ANDROMEDA, WHIRLPOOL, and  
CARTWHEEL step away from SINGULARITY to  
watch as the Universe unravels.)*

*(MILKY WAY mournfully wraps themself around  
the lifeless SINGULARITY.)*



(*JD and GRAVITY run in place. They stop in their tracks when they notice their lack of progress.*)

**JD**

The Edge of the Universe? Where is the Edge?

**GRAVITY**

Force!

**JD**

It's further away?

(*Taking a step.*)

[*The light expands further out. The home moves upstage in between the back curtains.*]

It's getting further away.

(*GRAVITY claws at the ground.*)

The Fabric of Spacetime is fabric, after all. And we're rolling it out, like our rug.

(*Leveling with GRAVITY.*)

We're going to go off on a tangent... For all eternity.

(*The TIDALs briefly step out of the home.*)

(*JD points towards the TIDALs in the home.*)

For the rest of spacetime.



(*GRAVITY motions for the TIDALS to join.*)

(*The TIDALS are unwilling.*)

### **GRAVITY**

Zenith...

(*Deciding to move on. They address JD.*)

Force!

(*JD stands, grateful to have a travel buddy.*)

### **JD**

This is the beginning of a beautiful Universe.

(*Leaving with GRAVITY on a journey.*)

### **GALAXIEs not JD**

DID REAL DAMAGE...  
A BANG-UP JOB!

YOU ARE MAKING  
A BIG MISTAKE!

(*The TIDALS disappear into the home.*)

(*TRIANGULUM grieves at the sight of the shattered snow globe. They hold its base, before stowing it away.*)

### **TRIANGULUM**

ALL OUR HEARTS HAVE GONE  
OUT WITH THE  
BIG BANG...

[End of "Big Bang."]



(*The GALAXIES lay SINGULARITY on the table.*)

**GALAXIES**

It is the end times, Singularity.

(*Bowing to SINGULARITY.*)

Declinations.

**CARTWHEEL**

Nothing matters.

**WHIRLPOOL**

Ain't anything holding mass.

**ANDROMEDA**

This mass isn't over... Let's make time to grieve.

[*A high-pitched ring echoes.*]

(*CARTWHEEL grows wobbly.*)

**CARTWHEEL**

Was time ever made by us? I can now hear the rings and feel it in my ring.

**WHIRLPOOL**

The aftermath of the Big Bang still rings true. It sounds like the Fabric of Spacetime stretching itself.

**CARTWHEEL**

Our Universe is stretching itself out thin. And now, we're supposed to stop that before our livelihoods are depleted?

**WHIRLPOOL**

I guess we can't make time and that there's not a millennium to waste...?

**CARTWHEEL**

Not a millennium but a certain Galaxy!

*(Growing violently frantic.)*

*(WHIRLPOOL grabs ahold of CARTWHEEL.)*

**MILKY WAY**

Is Singularity away...?

**ANDROMEDA**

With the expanding Universe, yes.

**TRIANGULUM**

Along the expanding Universe, JD is not.

*(CARTWHEEL calms down.)*

**CARTWHEEL**

You got to be kidding me. SPT0615-JD should stay away... It's not passed time to grieve another family member... When I waste JD—

*(WHIRLPOOL holds back CARTWHEEL again.)*

**WHIRLPOOL**

Triangulum...? Well Cartwheel, time has long passed.

**TRIANGULUM**

Family is everything.

**GALAXIEs not TRIANGULUM**

We know...

**CARTWHEEL**

JD is nothing.

**TRIANGULUM**

No. JD is an anomaly. And will always be an anomaly, everywhere they go. They are everything in this nothingness.

**MILKY WAY**

Gravity...?

**WHIRLPOOL**

Ain't knowing what that tidal dog did to convince JD to pull out that Big Bang Taser and tase our guardian in the face but-

**CARTWHEEL**

You knew what that thing was?

**WHIRLPOOL**

Singularity always pulls out the Big Bang Taser to make theories come to life whenever they meditate. It sends electricity through the chakras of our spacetime.

**ANDROMEDA**

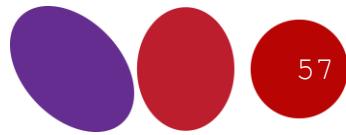
It certainly shocked their chakras alright...

**TRIANGULUM**

At least it's not in the hands of evil...

**MILKY WAY**

My hands are good!



(*MILKY WAY picks up the Big Bang Taser.*)

(*The GALAXIES distant from MILKY WAY.*)

(*CARTWHEEL clumsily cartwheels away.*)

**CARTWHEEL**

There are more than enough Big Bangs!

**WHIRLPOOL**

You're losing your edge.

**CARTWHEEL**

I've lost my ring.

(*MILKY WAY places the Big Bang Taser in SINGULARITY's unmoving hand.*)

**MILKY WAY**

Nomy's/Mama's/Papa's hand is good, too...

(*ANDROMEDA looks upon the Big Bang Taser.*)

**ANDROMEDA**

Why did Singularity hide such a treasure?

**TRIANGULUM**

Where did Singularity dig this up from?

(*WHIRLPOOL steps onto the rug. They sit.*)

**WHIRLPOOL**

I don't know. But we should meditate on it.

**CARTWHEEL**

Meditation on...?

**WHIRLPOOL**

Equations.

**CARTWHEEL**

That doesn't seem formulaic.

**TRIANGULUM**

Perfect. You two can cook up some formulas, while Andromeda and I are going to undo the Big Bang.

**ANDROMEDA**

We are what?

**MILKY WAY**

May I undo Big Bang, too?

**TRIANGULUM**

Cartwheel. Whirlpool. You're babysitting Milky Way.

**CARTWHEEL**

Gal... No one has time for this Barred Galaxy.

**ANDROMEDA**

Shut ye worm hole, Ring Galaxy.

**TRIANGULUM**

You two are going to make sure that our little sibling doesn't get in the way.

**ANDROMEDA**

You are such a square, Triangulum. Milky Way is how we move forward.

**TRIANGULUM**

Excuse me but this square picked you to be their hiking buddy.

**MILKY WAY**

Milky Way no get in the way... Milky Way no get in the way...

**WHIRLPOOL**

By the way, how long will it take for you to get back?

**TRIANGULUM**

A few million years...?

**ANDROMEDA**

Several dozens of...?

**TRIANGULUM**

We'll play it safe and say that it'll be a hundred.

**ANDROMEDA**

Safer to be ready for no more than a nine-digit number.



(WHIRLPOOL points to the Edge.)

**WHIRLPOOL**

Really? Is there an Edge in sight?

**ANDROMEDA**

You got a point there.

**CARTWHEEL**

The point is here. We'll accomplish this errand of thwarting the Big Bang in no time. While you are the two who have mouths to feed.

**TRIANGULUM**

You have wormholes. I'll give you that.

**CARTWHEEL**

We're brighter...

**WHIRLPOOL**

We're stronger...

**CARTWHEEL**

**WHIRLPOOL**

Than you two.

**TRIANGULUM**

Says who?

**ANDROMEDA**

The Ring Galaxy with their blue stars and the Grand Design Spiral Galaxy with their spiral arms...

(*TRIANGULUM sits on the whoopie cushion on the seat at the table.*)

(*CARTWHEEL and WHIRLPOOL distractedly bursts into laughter.*)

(*TRIANGULUM decisively stands up.*)

**TRIANGULUM**

And yet, you're as mature as a gas giant. There's not a millennium to spare.

(*Dragging ANDROMEDA away.*)

**ANDROMEDA**

We actually wasted a hundred and eighty millennia arguing. Are we really going to spend our lives getting JD back...

**TRIANGULUM**

Once we get JD, who is everything to me, home, we'll have everything waiting for us back home.

**ANDROMEDA**

What does that say about me?

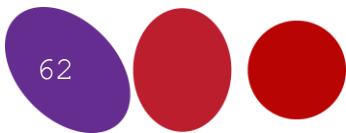
**TRIANGULUM**

You're quiet. I could use a listener for my little music on this journey. Melody is every-

**ANDROMEDA**

Ye know.

(*TRIANGULUM and ANDROMEDA depart.*)



(*CARTWHEEL and WHIRLPOOL finally stop laughing, realizing they've been bamboozled.*)

**MILKY WAY**

Do you wanna play Tardigrades and Elevators with me?

(*CARTWHEEL points to the table.*)

**CARTWHEEL**

Look! Nomy/Mommy/Daddy has a warm plate of nuclear pasta!

(*MILKY WAY does not turn around.*)

**MILKY WAY**

Yeah... Nomy/Mommy/Daddy is cooking nuclear pasta in my heart...

(*CARTWHEEL grabs ahold of WHIRLPOOL. They run off with WHIRLPOOL.*)

**CARTWHEEL**

Oh the luminosity...

**WHIRLPOOL**

In general, this is specially unrelativistic what you are doing...

**CARTWHEEL**

What do you know about special relativity? This is what's best for our special little relative. I'll show Triangulum and Andromeda that we're the galactic duos! We'll undo the Big Bang before them!

**WHIRLPOOL**

Time will tell...



(CARTWHEEL and WHIRLPOOL depart.)

(CARTWHEEL briefly sticks their head out.)

**CARTWHEEL**

Don't forget to feed the tidal forces!

(MILKY WAY goes out and grabs dishes. They place many on the ground.)

(The TIDALS come out to feast.)

(The SOLAR SYSTEM are voices in MILKY WAY's head.)

**SOLAR SYSTEM**

Ooh. Gravity might also want a snack...

(MILKY WAY grabs a tiny dish.)

**MILKY WAY**

Oh right. Thank you, imaginary friends!

**SOLAR SYSTEM**

Planetary friends, Milky Way. Planetary friends.

(MILKY WAY departs away from the safety of the Ellipse.)

**MILKY WAY**

Plant friends. I can't wait to see what JD is up to in this... U-ni-Uh. Verse.

[The home stows away.]



*[The Fabric of Spacetime]*

*[Field equations scatter all over the space.]*

**9. VERSE**

*(JD and GRAVITY blissfully skip in. They mix and match the constants of equations, as though they are picking flowers.)*

**JD**

LETTERS, NUMERIALS, FACTORIALS.  
IT IS ALL THANKS TO A FACTOR:  
THIS IS THE BEGINNING OF THE UNIVERSE.  
THAT'S THE START OF OUR VERSE!

NUMBERS, ALPHABETS, EPIC POEMS.  
REHEARSE STANZAS AS ITS ACTORS.  
STAGES OF THE BIG BANG FORM HYPERBOLAS.  
ONLY HYPERBOLE!

STORIES, EQUATIONS, ALGORITHMS.  
IT IS TO BASK IN ITS GLORY.  
THIS IS THE BEGINNING OF THE UNIVERSE.  
THAT'S THE START OF OUR VERSE!

*(GRAVITY puts together F = A M.)*

*(JD stops in their tracks.)*

MUSIC, DISCORDANCE, FAMILIAR.  
CROSSING THE LINE FULL OF SCEPTICS.  
SHOOTING NOMEY'S/MAMA'S/PAPA'S FACE IS A TURN FOR THE WORSE...  
THAT'S THE STING OF REVERSE...

(*GRAVITY fixes and turns their equation into Newton's second law of motion:  $F = MA$ .*)

### **GRAVITY**

Force?

(*JD smiles.*)

(*GRAVITY put together  $v = H_0 D$ .*)

### **JD**

DISTANCE VERSIFIES VELOCITY.  
BREVITY OF HUBBLE'S CONSTANT.  
THIS IS THE CREATION OF THE UNIVERSE.  
JUST THE START OF OUR VERSE!

[End of "Verse."]

### **GRAVITY**

Force!

(*JD and GRAVITY skip out, faster than ever.*)

(*TRIANGULUM and ANDROMEDA stroll in.*)

(*ANDROMEDA mumbles the upcoming space shanty, "Globular." They take out their monocular. They scope out towards the Center.*)

### **TRIANGULUM**

Your heart's in the wrong space. You're facing the wrong way... Do you see the Edge...? Of the Universe?

**ANDROMEDA**

Ye just want to know how far we've come...

**TRIANGULUM**

I want to know how far we'll be coming. The Center of our Universe should not be in the scope of things. Family may be everything to us but—

**ANDROMEDA**

There's nothing.

**TRIANGULUM**

Excuse me?

**ANDROMEDA**

Milky Way is away.

**TRIANGULUM**

Away? Are they getting lost in the Water Bears and Elevators board game again?

**ANDROMEDA**

No one is at the Ellipse.

**TRIANGULUM**

Those galactic idiots... This voyage is in vain.

**ANDROMEDA**

We're going to set our course back to our home base. Please try not to gamma-ray burst a vein.



(*TRIANGULUM takes out the snow globe's base.*)

**ANDROMEDA** (cont.)

Triangulum... Triangulate.

**TRIANGULUM**

JD... It's late out here. Going from finding JD to finding Milky...

**ANDROMEDA**

JD can wait...

**TRIANGULUM**

That was the problem... They waited too long.

**ANDROMEDA**

I take it back. They're not waiting. The Universe is their oyster. Let's find Milky Way. For our pearl, Singularity. Then we'll go back and enjoy what the Fabric of Spacetime offers us.

**TRIANGULUM**

Oh to let Singularity's favorite child get in harm's way... Cartwheel and Whirlpool are going to meet my spiral arms.

(*ANDROMEDA smirks at TRIANGULUM.*)

My 30,000-light-year radius packs a punch, okay? Anyways, if their attention spans are this short for Milky Way, their attention spans will also be short on their way. I hope the Fabric of Spacetime tells them to return home.

(*TRIANGULUM and ANDROMEDA head back.*)



(*WHIRLPOOL meditatively spirals in.*)

(*CARTWHEEL clumsily lands their cartwheel.*)

**CARTWHEEL**

My time is...

**WHIRLPOOL**

Time is what?

**CARTWHEEL**

Up...

**WHIRLPOOL**

In the air?

**CARTWHEEL**

*In a vacuum... Yes, in the air!*

**WHIRLPOOL**

Why're you full of uncertainty?

**CARTWHEEL**

Time is so slow. And it gets slower. Are we ever going to reach the Edge of the Universe? I'm uncertain of where we're going.

(*WHIRLPOOL sits and prepares to meditate.*)

**WHIRLPOOL**

You're certain 'nough that time is closer to the end than the start. Me too. Time's gonna end. So is this game we're playing.

**WHIRLPOOL** (cont.)

We ain't gonna reach the Edge before Andromeda and Triangulum.

**CARTWHEEL**

Give me a millennium to consider your input.

(*WHIRLPOOL taps their foot once.*)

**WHIRLPOOL**

That's a millennium. *You change your mind yet...? Let's go home.*

**CARTWHEEL**

Gal... For the billionth time, we're not going home.

**WHIRLPOOL**

And now we have a billion less time without a shelter over our heads. A billion less time without our family.

**CARTWHEEL**

We need to spend a trillion more years to find the Edge of our Universe and roll it back. Can you do that?

**WHIRLPOOL**

I ain't spending another millennium without Milky Way.

**CARTWHEEL**

You seemed fine with spending billions of years on this trek.

**WHIRLPOOL**

I made myself feel like only a millennium has gone by. My position to go home ain't budging, millennium or million.

**CARTWHEEL**

Well, you just sit around all year and I be standing here plotting our next move. I say, we keep moving.

**WHIRLPOOL**

Cartwheel, you be the steering wheel of this ship.

**CARTWHEEL**

Whirlpool, you're a whirlpool in this sea.

**WHIRLPOOL**

I'm just sitting here tryna turn this ship around.

**CARTWHEEL**

We're not going home. Milky Way... Their primordial heart is preoccupied with our lifeless captain's.

**WHIRLPOOL**

Singularity loves our little barred sibling. They may eye their spiral arms, but they care for our elliptical shapes. They won't be disappointed if we considered our own safety, ring sibling.

*(CARTWHEEL failingly cartwheels.)*

**CARTWHEEL**

Whatever's left of my ring... I'm not worried if we would be disappointing them... As for Milky Way, they're probably having a grand old time now.

**WHIRLPOOL**

Typical Ring Galaxy. Your spine is uptight. You ain't right. We wronged our little sibling by leaving them behind. What we're doing to Milky Way brings degradation to the Galaxy family.

**CARTWHEEL**

Don't grade me on loyalty. *Triangulum and Andromeda ditched us.*

**WHIRLPOOL**

That be your reason to ditch Milky Way? Time's missing in your equation. Time's up in the air, when it needa be solid in you.

**CARTWHEEL**

Letting them be home alone is the best thing we've done for that barred twerp. I learnt about time as much as you did on our travels. Their life goes by faster without us.

**WHIRLPOOL**

That's the problem... Life is short. Well, for them.

**CARTWHEEL**

Never mind what I said I learnt. I should focus on why you're once again going to meditate to that time whatever equation-

**WHIRLPOOL**

Time dilation? It's what Singularity did to pass time. They used to meditate 'bout formulas on our house rug. I be wondering what our nomy/mother/father was thinking about these simple concepts...

**CARTWHEEL**

You're becoming Singularity. Our black-hole parent. Our Bạch Hổ.



### **WHIRLPOOL**

Tiger parent ain't who I am cause we're still cubs. Ain't a hole bigger in our hearts without our family. Our Bạch Hổ would eat us alive if we let Milky Way go through the nuclear leftovers.

### **CARTWHEEL**

Let's keep going. We must undo the Big Bang. A welcome back will be the fruits of our labor.

### **WHIRLPOOL**

Our quest ain't fruitful. Our Universe expands faster than we can ever outrun it.

### **CARTWHEEL**

What makes you think that?

### **WHIRLPOOL**

Dilation...

### **CARTWHEEL**

Can you expand on that?

### **WHIRLPOOL**

*Dilation means to expand.*

$$[ \text{Pieces of } \Delta t = \frac{\Delta t_0}{\sqrt{1 - \frac{v^2}{c^2}}} \text{ loom in the space.} ]$$

### **CARTWHEEL**

*Expansive. And your point is?*

**WHIRLPOOL**

Our point's in the Center of the Universe. Home. We ain't there. We should think about it. We gotta go home.

**CARTWHEEL**

That's not the point of our duty. What should come first in mind is the Edge of the Universe. Not Milky Way or our Bạch Hổ.

**WHIRLPOOL**

Singularity ain't like a tiger parent any longer. They're pretty tranquilized. Home... I miss being a tiger cub in a well-kept zoo. Now, there's no better duty than for us to be Milky Way's keeper. We've got to take care of Milky Way.

**CARTWHEEL**

I'm not playing another Tardigrades and Elevators board game or reading another *Journey to the Cosmic* bedtime story to them...

**WHIRLPOOL**

You're bright. I wish I can read. Really though, can you calm down and listen to your own supermassive heart? Another million years out here is another millennium without our sibling. You'll get the point. There ain't a point in this chore. The point of time is that time ain't have bonus points. Time runs out...

*(Calming down.)*

I know what I just said was heavy. And weights on your shoulders make time go even slower. Just live in the millennium with me. Help me piece the time dilation equation. Enjoy the time we have together.

**CARTWHEEL**

Time's so special with you, relative. To me, times are heavy weights.



**WHIRLPOOL**

A little enlightenment ain't gonna hurt. Wait for the light.

**CARTWHEEL**

What's on your mind when you expand your mental universe?

**WHIRLPOOL**

*Everything.*

**10. 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.

Live with me in the millennium.

*(Tapping the ground.)*

*(CARTWHEEL sits and poorly meditates.)*

**CARTWHEEL**

*(Sentimentally.)*

You have Singularity's chakras...

*[Strobe of lights move fast near WHIRLPOOL while lights move slow near CARTWHEEL.]*



### **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**

TIME'S NOT RELATIVE...

*(Pointing to the lights.)*

What is this?!

### **WHIRLPOOL**

Enlightenment.

### **CARTWHEEL**

Where's time in all this?

### **WHIRLPOOL**

Did I forget to mention that time's in the fourth dimension?  
Time's invisible in our third dimension. So, these strobes of  
lights will have to do in presenting the speed of time.

### **CARTWHEEL**

Why is my time so slow?

### **WHIRLPOOL**

Time ain't fast if you keep stressing. Think about something  
that makes you happy.

**CARTWHEEL**

Family...

**WHIRLPOOL**

Exactly. One moment here seems like a million years...

*[Strobe of lights erratically quickens near CARTWHEEL.]*

**CARTWHEEL**

When you factor in time...

*(Freaking out.)*

*One million years with relatives seem like a moment.*

**WHIRLPOOL**

That's relativity. Time goes by quickly, being clustered with those you love spending it with. Time is specially related to family.

*(CARTWHEEL tries to be in denial.)*

**CARTWHEEL**

UNRELATED.

**WHIRLPOOL**

TIME WILL TELL YOU  
TO CONFRONT YOUR RELATIVES.

**CARTWHEEL**

NOT RELATED.

**WHIRLPOOL**

TIME WILL TELL YOU  
TO RESPECT YOUR RELATIVES.

**CARTWHEEL**

NO DEBATE.

**WHIRLPOOL**

TIME WILL TELL YOU  
TO HELP OUT YOUR RELATIVES.

**CARTWHEEL**

YOU'RE DELUSED.

**WHIRLPOOL**

JUST DILATED.

**CARTWHEEL**

Dial it back.

**WHIRLPOOL**

Nah. You dial back your worries. Quit denying reality.

**CARTWHEEL**

It's too early to turn back.

**WHIRLPOOL**

It'll be too late if we turn our backs. Let's just take it step by step...

T OVER SQUARE ROOT OF ONE MINUS VELOCITY...

**CARTWHEEL**

(Forgetfully.)

*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**

TIME IS RUNNING OUT,  
YET TENSOR CALCULUS STRAINS YOU.

**CARTWHEEL**

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

**WHIRLPOOL**

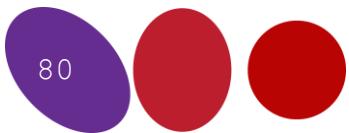
FAMILY'S IN OUR EQUATION.  
THEY MAKE UP OUR SOCIAL CONSTRUCT.

(*CARTWHEEL gets up and walks away. They timely rotate like a ship's wheel.*)

**CARTWHEEL**

DOWNTIME.

(*WHIRLPOOL spirals clockwise in place.*)

**CARTWHEEL**

PLEASE DO FACE TIME.

**WHIRLPOOL**

I CAN'T FACE TIME.

**WHIRLPOOL**

Time moves slowly the further into one's gravity you go. So, your black-hole heart is younger than how you look. Really, you're naïve and scared on the inside. Life was 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. Except we won't be there to see them grow. Sure, you ain't grown a bit. But get it to your head that there will someday be no time.

**CARTWHEEL**

I'm steering us away from the time dilation— Dilemma that we face. One universe, our caregiver cared. This Universe, they can't care less. In any Universe, we can't care as caregivers. 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.)

**CARTWHEEL** (cont.)

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. Milky Way may be cute. Triangulum may be obtuse. Andromeda may be quiet. Whirlpool may be a risky whirlpool. And I may be a poor steerer. But we are forever Singularity's babies. And 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. We must be there for our family, before we won't have time anymore. We'll know in no time.

(Returning and lending a hand to WHIRLPOOL.)

TIME'S NOT UP, RELATIVE.

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

[Their lights gradually balance one another.]

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

**CARTWHEEL**

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

**WHIRLPOOL**

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

**WHIRLPOOL**

TIME IS RELATIVE.  
YOU'VE CHANGED AND SO FAMILY COMES FIRST.

**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.]*

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 Center of the Universe*]

[*The home returns. Singularity remains on the table. This Ellipse is messier.*]

**CARTWHEEL**

**WHIRLPOOL**

We're home! Dilations, Milky Way. Milky Way!

**WHIRLPOOL**

Where are ya, ya barred rascal?

**CARTWHEEL**

I'll let you roll the first die on Tardigrades and Elevators.

(*WHIRLPOOL peaks into the offstage bedroom.*)

**WHIRLPOOL**

We have a warm plate of nuclear pasta ready for you! Ain't stopping them from showing up.

**11. SPAGHETTI HORIZON**

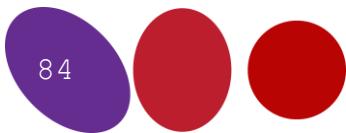
(*The TIDALS remain absent. They whistle.*)

**CARTWHEEL**

Has anyone fed the tidal forces...?

(*A group of TIDALS grabs ahold of WHIRLPOOL while the other grabs ahold of CARTWHEEL.*)

Gal, we're about to be the first to die!



(*CARTWHEEL and WHIRLPOOL cry out for one another. They may also argue.*)

(*SINGULARITY remains lifeless. They echo.*)

**SINGULARITY**

You dare not look after your baby sibling?!

**CARTWHEEL**

From the cosmic beyond...

**WHIRLPOOL**

Our relative is specially...

**CARTWHEEL**

Relativistically...

**CARTWHEEL**

**WHIRLPOOL**

Upset!

(*The TIDALS drag out WHIRLPOOL and pluck out CARTWHEEL in separate directions.*)

**TIDALS**

(Repeating.)

SPAGHETTI HORIZON...  
SPAGHETTIFICATION...

[*The home stows away.*]

[*End of "Spaghetti Horizon."*]



*[The Fabric of Spacetime]*

(*MILKY WAY drifts in. They exhaustedly drop the dish. They stow away the dish.*)

**MILKY WAY**

Milky Way for...

**SOLAR SYSTEM EARTH (ensemble character)**

Forgotten?

**MILKY WAY**

Imaginary friends?

**SOLAR SYSTEM ERIS (JD)**

No, we're your planetary friends.

**SOLAR SYSTEM EARTH (ensemble character)**

I'm not.

**SOLAR SYSTEM PLANETS, NOT EARTH**

No one is asking you, Earth.

**SOLAR SYSTEM ERIS (JD)**

Don't give up. You're not the only one forgotten. Everyone remembers Pluto. But I'm cooler, literally. I'm Eris by the way, and I should be the heiress/heir-no-less of the dwarf planets. You may be barred, but barred spiral Galaxies are bigger than normal spirals like Triangulum and Andromeda.

**SOLAR SYSTEM JUPITER (Whirlpool)**

You most certainly are a massive spiral galaxy.

**SOLAR SYSTEM SATURN (Cartwheel)**

Says the gas giant with dozens of Jovian moooooons.

**SOLAR SYSTEM JUPITER (Whirlpool)**

Go play with your ring.

**SOLAR SYSTEM SATURN (Cartwheel)**

Jupiter is just jealous of mine. Got a ring to spare, Uranus?

**SOLAR SYSTEM URANUS (Triangulum)**

Two. In fact.

**JUPITER (Whirlpool)****SATURN (Cartwheel)**

You are a two.

*(Laughing.)*

**SOLAR SYSTEM SUN (Singularity)**

Planets. What is with the radio outbursts?

**SOLAR SYSTEM URANUS (Triangulum)**

Nomy/Mama/Papa Sun. My gas giant siblings are making me the butt of the joke!

**MILKY WAY**

Even planets have a nomy/mama/papa? And they have brains, too?

**SOLAR SYSTEM EARTH (ensemble character)**

You're a Galaxy. You have no brain. Unlike planets. Us planets have brains. At least, mine is in my inner core.

**SOLAR SYSTEM SUN (Singularity)**

Earth, who are you talking to?

**SOLAR SYSTEM EARTH (ensemble character)**

Just mantling with my Moooooon, nomy/mama/papa Sun.

**MILKY WAY**

May I talk to Mooooon?

**SOLAR SYSTEM EARTH (ensemble character)**

You have your own natural satellites. Isn't that right, Mooooon? Mooooon...? Why don't you ever return my calls?!

**SOLAR SYSTEM ERIS (JD)**

Earth and you have a lot in common. You are rather dense, if not diffused with clouds. But you're not in the inner circle like Earth is. Trust me as I make my way around the Kuiper Belt. I hate my elliptical orbit. One decade, you're with your family. The next centuries, you're a rogue planet.

**MILKY WAY**

Patience. Only a millennium.

**SOLAR SYSTEM EARTH (ensemble character)**

Oh yeah, you're a Galaxy. The frame of time is dilated for you. Let this rocky planet convert it... The last time you were in your family's orbit was... 13.81 billion years ago. As a Galaxy, do you hate being an oval?



(*MILKY WAY is about to break down.*)

**SOLAR SYSTEM SUN (Singularity)**

Earth, I didn't raise you to be mean to other shapes.

**SOLAR SYSTEM EARTH (ensemble character)**

Just like you as a star, I'm very proud to be a sphere.

(*MILKY WAY feels their body.*)

Ew, waves...

(*MILKY WAY feels their face.*)

Pff, wrinkles.

**SOLAR SYSTEM ERIS (JD)**

Don't take any more of Earth's bullying. They may be the perfect person that you always want to be. But you are already a person, Milky Way. What with your waves. And wrinkles, imperfect as they are. Just like Oort Cloud, who I want you to meet.

**SOLAR SYSTEM OORT CLOUD (Andromeda)**

I'm out of this Solar System and yet I have a stronghold on it, just like you. I've heard a lot about you, Milky Way. I have an influence that is about a hundred thousand astronomical units wide, but you, you are 6.685 billion. Personally, I know enough about comets' tails. Do you have a tale to share with us, Milky Way? Gather around, Solar System!

(*The SOLAR SYSTEM pops out as puppets.*)

**SOLAR SYSTEM EARTH (ensemble character)**

*Gravity well... Theorize somethin'!*

*(MILKY WAY gracelessly and half-melodically bellows, with cracks. They suddenly hiccup.)*

Milky Way warped themself!

*(The SOLAR SYSTEM bursts into laughter.)*

*(MILKY WAY bursts into tears.)*

**MILKY WAY**

I hate myself...

**SOLAR SYSTEM OORT CLOUD (Andromeda)**

All the use crying, Milky Way. Let it out. Milk of celestial kindness. There is a pattern here. You show a huge quality.

*(MILKY WAY examines their physical self.)*

Not your mass. Oh, the ellipses... You are a special Galaxy. You hold something dear that no one else has. Well, *your siblings probably do, but they won't show it.*

**MILKY WAY**

*Tell me.*

**SOLAR SYSTEM OORT CLOUD (Andromeda)**

You hold personhood. Persons with warping voices, growing hairs that are waving, and whose skin are covered in wrinkles. There is a person in you, Milky Way.

**SOLAR SYSTEM EARTH (ensemble character)**

There are people in me.

**SOLAR SYSTEM PLANETS, NOT EARTH**

Cut your hubris, Earth!

**SOLAR SYSTEM OORT CLOUD (Andromeda)**

We like all things, *unearthly*, about you. You carry our weight, our history, our culture, our voices.

**MILKY WAY**

Sing it.

**SOLAR SYSTEM OORT CLOUD (Andromeda)**

You must first, own it.

*(MILKY WAY nears the SOLAR SYSTEM puppets.)*

**12. WARP, WAVES, AND WRINKLES****SOLAR SYSTEM**

MILKY WAY'S  
ON THEIR OWN.  
ALL ALONE.  
KNOW THAT FOR  
US AT HOME.  
YOU'RE THE ONLY WAY FORWARD,  
THROUGH WARP, WAVES, AND WRINKLES.

*(The SOLAR SYSTEM puppets are livelier.)*

THROUGH IT ALL.  
THICK AND THIN.  
THROUGH THE ENTIRE UNIVERSE.

**SOLAR SYSTEM OORT CLOUD (Andromeda)**

YOUR PLANETARY FRIENDS FEEL LIKE THEY'RE IN YOUR HEAD.

**SOLAR SYSTEM**

IMAGINARY!

**SOLAR SYSTEM OORT CLOUD (Andromeda)**

BUT REALLY...

**SOLAR SYSTEM ERIS (JD)**

THE SOLAR SYSTEM IS LOCATED ON YOUR ARM.

**SOLAR SYSTEM**

ONE OF SEVERAL...

*(Extra arms extend out behind MILKY WAY.  
They are unaware of these arms.)*

**SOLAR SYSTEM ERIS (JD)**

ARMS, IN FACT.

**SOLAR SYSTEM URANUS (Triangulum)**

Check a mirror!

**MILKY WAY**

What's mirror?

**SOLAR SYSTEM URANUS (Triangulum)**

It's the thing to check what you look like!

**MILKY WAY**

I never know what I look like...

*(The extra arms shake MILKY WAY's hands.)*

**SOLAR SYSTEM**

Neither do we. But take it from us, we know you're beautiful on the inside!

*(The SOLAR SYSTEM puppets shake each hand.)*

SCUTUM-CRUX ARM.

PERSEUS ARM.

NORMA, CYGNUS.

SAGITTARIUS,

ARM AND HEART.

WE'RE HOME ON THE ORION.

ARM SO SMALL AND SO MINOR.

[A tiny arm pops out.]

**SOLAR SYSTEM OORT CLOUD (Andromeda)**

You are Magellanic.

*(MILKY WAY ponders.)*

They're not planets and you don't need to imagine. We hid a present in your waves.

*(MILKY WAY digs into their outfit. They pull out two magnolia flowers.)*

Like you, they have existed from the beginning of time. They signify perseverance and longevity—



(*MILKY WAY devours the flowers.*)

**SOLAR SYSTEM OORT CLOUD (Andromeda)** (cont.)

Don't eat your natural satellites!

**MILKY WAY**

(*Mouthful of Magellanic Clouds.*)

I gravitate my feelings...

**SOLAR SYSTEM OORT CLOUD (Andromeda)**

You primordial nebula... Go ahead and have a taste of the Local Group while you're at it. Cook Sagittarius at 3 megaparsecs.

**MILKY WAY**

Parsecs no work like that. Parsecs distance, not time.

**SOLAR SYSTEM OORT CLOUD (Andromeda)**

I'm parsecs away from losing it. Go back to coughing up gas and dust.

**SOLAR SYSTEM JUPITER (Whirlpool)**

It's the nature of Galaxies... They'll eat everything.

**SOLAR SYSTEM SATURN (Cartwheel)**

Like us gas giants. We're persons too after all!

**SOLAR SYSTEM OORT CLOUD (Andromeda)**

Eat me... There are plenty of other celestial objects to see outside you anyways... I mean, persons.

**SOLAR SYSTEM ERIS (JD)**

Like you said, Oort Cloud: Milky Way has always been a person.  
In fact, they have reached a new stage in personhood.

*(MILKY WAY sings with natural cracks and flaws.)*

**MILKY WAY**

I NOW HAVE  
WARP, WAVES, AND WRINKLES.  
I LIVE WITH IT.

WARP, WAVES, AND WRINKLES.

*(Deepening voice.)*

I LOVE MYSELF.

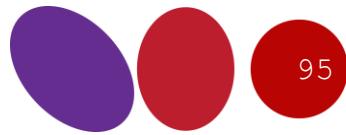
*(The extra arms may hug MILKY WAY.)*

*(Many SOLAR SYSTEMS spiral in. These dancers resemble known and unknown stars and planets, while EARTH drags their feet. They orbit MILKY WAY like the spiral arms around a supermassive black hole of a Galaxy. One dancer places a halo on MILKY WAY's head.)*

**SOLAR SYSTEM**

HALO FRIEND  
AND OUR HOME.  
PROTECTOR  
AND OUR RIDE.  
HITCHHIKER  
AND THE ONLY WAY OUT OF OUR...  
  
WARP, WAVES, AND WRINKLES!  
WE LOVE IT ALL!

*(MILKY WAY loves this galactic stage that they have reached in their life.)*



### **SOLAR SYSTEM SUN (Singularity)**

Any more radio outbursts and I'll supernova your asteroids!

*(MILKY WAY and the SOLAR SYSTEMs lower a bit in distress. They confidently resume.)*

**MILKY WAY**

**SOLAR SYSTEM**

OUR WARP, WAVES, AND WRINKLES!

*[End of "Warp, Waves, and Wrinkles."]*

*[The stage goes red as though the Sun has become a red giant and is swallowing the Solar System in their wake.]*

*(The SOLAR SYSTEMs run away and steal MILKY WAY's halo. EARTH screams in the searing heat. JUPITER and SATURN maniacally laugh.)*

*(MILKY WAY suddenly feels a headache. They touch their forehead. They take their hand off to reveal a zit on their forehead.)*

**MILKY WAY**

W— W— N— Wr—

### **SOLAR SYSTEM OORT CLOUD (Andromeda)**

Warp, waves, and wrinkles, we got a sense for... But not red giants. Welcome to adolescence.

*(MILKY WAY passes out on the ground.)*

*(TRIANGULUM and ANDROMEDA stroll in.)*

**13. GLOBULAR****ANDROMEDA**

EVERYTHING IS A BIG CLUSTER FLUX.

THAT IS THE SPIRIT, ISN'T IT?

MATTERS COME AND GO.

CRUXES OF FORCES THAT HOLD

ALL US TOGETHER.

IT'S WHY WE CLUSTER OUR STARS.

AS FOR MILKY WAY,

LET THEM JOIN THE GLOB. GLOBULAR.

[End of "Globular."]

**TRIANGULUM****ANDROMEDA**

Milky Way! Declinations! We found you!

**ANDROMEDA**

Did we lose...? Are they in the temple of the cosmic beyond?

**TRIANGULUM**

Oh. No. They're going through— There's a zit on their temple.  
They certainly found themself...

**MILKY WAY**

Wav— and Wrink—?

(**ANDROMEDA**)

(*If MILKY WAY is male-identifying.*)

(Your voice has warped...)

**TRIANGULUM**

A zit is when after several billion years, a star grows into a red giant, swallows the planets near it, and enflames your galactic skin. We've been there.

**ANDROMEDA**

How long have ye been lying there?

**MILKY WAY**

Over four bill- years?

**ANDROMEDA**

Let's not spare another mill. Let's supernova it and get going.

**MILKY WAY**

No... Plant friends.

**ANDROMEDA**

Plant friends?

**MILKY WAY**

Their name is Solar System.

**TRIANGULUM**

Our cells from the planets to the comets, don't actually hold us up. It is the dark matter. Sorry, Milky Way. But your imaginary friends-

**ANDROMEDA**

Solar System.

**TRIANGULUM**

*Solar System* is long gone. All we could do is make sure they burn in peace.

*(Smirking at ANDROMEDA.)*

**ANDROMEDA**

What?

**TRIANGULUM**

Pop it.

**ANDROMEDA**

No.

**TRIANGULUM**

Pop the red giant.

**ANDROMEDA**

I'm not touching that thing.

**TRIANGULUM**

What? A little space scurvy is too scary for you?

**ANDROMEDA**

We can carry Milky Way home.

**TRIANGULUM**

You can. I have these teeny spiral arms, remember?

(*ANDROMEDA levels with MILKY WAY.*)

**ANDROMEDA**

Ye repulsed by your dark energy lately...

**TRIANGULUM**

Dark matter holds up, more than light ever could. I don't like seeing our family get old...

**ANDROMEDA**

Growing with family always uplifts. Dark energy repels us.

**14. FABRIC**

(*The TIDALS remain absent.*)

**TIDALS**

Fall!

**TRIANGULUM**

Speaking of dark energy... Who let the tidal forces out?!

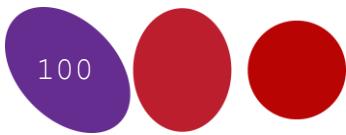
(*The TIDALS prowl out.*)

(*TRIANGULUM pulls out some tiny dishes. They toss them to the TIDALS.*)

The tidal dogs are unfed! Don't worry. We have treats for you!

(*The TIDALS swat the dish away.*)

You don't want nuclear pasta?! That's all we ever had.

**ANDROMEDA**

We didn't have this wide-open space...

**TRIANGULUM**

But they have been used to our doghouse for eternities.

**ANDROMEDA**

And once JD gave them a taste of the Fabric of Spacetime... Of freedom... They won't let go of this cosmic dog park without a fight.

**TRIANGULUM**

When did you start understanding their plight?

**ANDROMEDA**

Honestly, ye am hesitant about undoing the Big Bang... Ye, too, enjoy this space.

**TRIANGULUM**

Look, Tidals. It's not what it looks like. We are not rolling the Universe back to the way things were...

*(Whispering to ANDROMEDA.)*

We got to keep moving.

**ANDROMEDA**

Ye don't want Milky Way to be in a world of pain any longer.

**TRIANGULUM**

We're going to be in a universe of hurt! Carry Milky Way.



### MILKY WAY

Fix...

*(The TIDALS instinctually sit for a moment.  
They refocus on ANDROMEDA and MILKY WAY.  
They encircle them.)*

### TIDALS

Force! Force! Force! Force! Force! Force! Force! Force!

*(The TIDALS pounce.)*

*(ANDROMEDA pops MILKY WAY's zit.)*

### MILKY WAY

Quasar!

*(The spotlight lands on MILKY WAY.)*

*(The TIDALS get blinded and scatter away.)*

### TRIANGULUM

Milky Way. Don't go to the light!

### ANDROMEDA

The light is actually coming from Milky Way.

### TRIANGULUM

Ew... That's the most extreme pulsar I've ever seen emitted.

*(MILKY WAY stops emitting light.)*

**MILKY WAY**

*Quasi-stellar radio source...!*

*(ANDROMEDA helps MILKY WAY up.)*

**ANDROMEDA**

Looks like you are officially a teenage Galaxy...

**TRIANGULUM**

I can't deal with another one...

*(MILKY WAY offers their hand. They raise their head high.)*

**MILKY WAY**

Only way's forward...

*(TRIANGULUM clusters with ANDROMEDA and MILKY WAY.)*

**TRIANGULUM**

*(Relieved.)*

Milky Way forward, Milky Way. Milky Way forward...

*(TRIANGULUM, ANDROMEDA, and MILKY WAY walk it off.)*

*[End of "Fabric."]*

*(JD and GRAVITY wander.)*

*(GRAVITY appears huskier.)*



(*JD pulls out and briefly looks through the monocular. They stow it away.*)

**JD**

A trillion years...

(*Grabbing a ball.*)

Fetch, Gravity.

(*Tossing the ball.*)

Fetch the star!

## **GRAVITY**

Force!

(*Retrieving the ball.*)

(*JD pets GRAVITY.*)

**JD**

Who's a good tidal force? You are. You are. You shaved a couple hundred thousand years from that retrieval.

(*Tossing the ball.*)

Perfect spiral arm!

[*A Quasar looms in the distance.*]

(*JD sees MILKY WAY's light.*)

**JD**

Milky Way...

## **GRAVITY**

Abell?



(*JD is surprised that they could understand the TIDALs.*)

**JD**

Force...?

**GRAVITY**

You always say *Abell* under your breath when you look out through your scope, back when the Edge was near the Center of our Universe. What is Abell?

**JD**

*Abell* is a name I gave *nothing*...

**GRAVITY**

Why name it *Abell*?

**JD**

It's just like why I named you.

**GRAVITY**

Love and attraction?

**JD**

Yes, Gravity. That may be how I am able to learn to communicate with you after all this time. I hope to talk to *Abell*, too. If they exist.

**GRAVITY**

If they exist?



**JD**

This Galaxy is the Galaxy of my dreams. And of my scope.

*(Briefly pulling out the monocular.)*

Maybe they are really just a dream. Singularity says that all Galaxies must have a supermassive-black-hole heart. Yet, Abell is able to do all the things a Galaxy does without one. I need to shed my light. I hope to share my light with them. Again, they're probably a legend and I literally believe in *nothing*.

### **GRAVITY**

Singularity is the true legend. Who is *nothing* to you?

**JD**

Well, nothing is nothing when I was younger. But once I got older, nothing is everything. I hope to have nothing of my own. There's nothing here for us.

*(Looking back at the Quasar.)*

### **GRAVITY**

You can make up nothing. Don't stall on nothing now. The Edge of the Universe is just beyond the horizon.

**JD**

Well, we keep rolling away the horizon.

### **GRAVITY**

This Fabric of Spacetime is not infinite. Nothing is infinite.

**JD**

You would know. You tidal forces are fifteen times my age...? As a Galaxy, I'm getting too old for this.

**GRAVITY**

You're blowing it out of proportion.

**JD**

2.327 terameters per year per megaparsec... The Universe is expanding. The light can't even see the end of the tunnel.

**GRAVITY**

I don't know how to convert that. I'm a tidal dog.

**JD**

And yet, on this voyage, you learnt how to speak my language... Or I learnt how to speak tidal force... Whether or not, I have grown in the worst ways possible.

*(GRAVITY retrieves the ball.)*

**GRAVITY**

You are part of my accretion, and I thank you. Grow up but don't grow up.

**JD**

...Give up and give up?

**GRAVITY**

Your tidal dog whispering is a bit low in escape velocity... So, your voice will carry far...

*(JD exhaustedly looks out.)*

**JD**

Far, far away...



## 15. FAR-FETCHED

### **GRAVITY**

SO FAR,  
AS THUS FAR,  
IT IS FAR-FETCHED  
TO NOT GO FARTHER.

**JD**

EDGE IS FAR-FETCHED.  
THE EDGE.  
THIS EDGE.  
EDGE IS SO FAR-FETCHED.  
FAR AND AWAY.

### **GRAVITY**

LONG TIME AGO  
YOU WERE REAL CLOSE  
TO THE CENTER  
WHERE YOUR SIBLINGS,  
WHERE YOUR BROTHERS,  
WHERE YOUR SISTERS,  
WHERE YOUR PARENT...

**JD**

SINGULARITY.

### **GRAVITY**

APPARENTLY  
WILL NOT FORGET.  
WILL NOT FORGIVE.  
CAN I FORETELL?  
CAN'T YOU FORESEE?  
THIS IS FAR-FETCHED.



(*GRAVITY snatches the ball. They toss it in the direction of the Center of the Universe.*)

**GRAVITY**

GO FETCH THE STAR...

(*JD heads to the ball. They cramp up.*)

FORGOT TO STRETCH?

**JD**

ALL'S A STRETCH!

**GRAVITY**

THE EDGE OF THE UNIVERSE IS FAR.  
YET, IT IS SOMETHING YOU GALAXIES NEED TO FETCH.  
POINT OF RETURN IS FAR-FETCHED.

(*Heading to JD. They point to the ball.*)

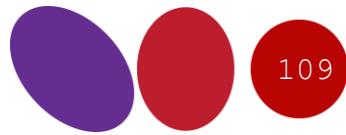
WE'RE ON THE SAME WAVELENGTH.  
YOU'RE SPEAKING TIDAL FORCE NOW.  
THAT ONCE SEEMED AS THOUGH FAR-FETCHED.

**JD**

IT GIVES ME PAUSE.

**GRAVITY**

IMPLAUSIBLE.  
DOES IT GIVE YOU PAUSE WITH ALL OF YOUR ACCRETE  
THINKING?  
DOES IT GIVE YOU PAUSE THAT THE STRINGS WE WALK ON ARE  
STRUMMED?  
DOES IT GIVE YOU PAUSE WHENEVER YOU BE SHOOTING STARS?



*(GRAVITY takes another ball. They toss it in the direction of the Edge of the Universe.)*

### **GRAVITY**

IMPLAUSIBLE.

DOES IT GIVE YOU PAUSE THAT YOU ARE FULL OF LIVING THINGS?

DOES IT GIVE YOU PAUSE ALL OF YOUR CELLS ARE STAR SYSTEMS?

DOES IT GIVE YOU PAUSE, YOU HAVE A BLACK HOLE FOR A HEART?

### **JD**

IT'S PLAUSIBLE!

### **GRAVITY**

You are part of my accretion, and I thank your...

SUPERMASSIVE BLACK HOLE!

*(Jumping on and embracing JD like a dog.)*

SPT0615-JD, YOU ARE NEAR AND WELL-KEPT TO ME!

*(JD drops numerous balls.)*

*(The TIDALS rush in like a tidal wave.)*

### **TIDALS**

IT IS FAR-FETCHED

WHAT YA' LL

HAVE DONE.

YOU TWO ARE FAR-FETCHED.

FAR IN A WAY.

### **GRAVITY**

THE EDGE OF THE UNIVERSE IS FAR.

**TIDALs**

FAR!

**GRAVITY**

YET, IT IS SOMETHING YOU GALAXIES NEED TO FETCH.

**TIDALs**

FETCH!

**GRAVITY**

POINT OF RETURN IS...

**JD**

FAR-FETCHED!

*(JD and GRAVITY pick up the balls.)*

**JD****GRAVITY**

WE ARE FAR-FETCHED.

FAR-FETCHED.

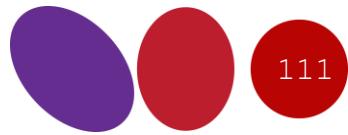
FAR-FETCHED.

FRIENDSHIP SAILED FAR-FETCHED./FRIENDS BEYOND THE EDGE.  
FARTHER AWAY.

*(GRAVITY accidentally hands SINGULARITY's  
eyeball to JD.)*

**JD**

Singularity's eye?!



111

**TIDALs**

A BIT FAR-FETCHED!

*(The TIDALs vanish.)*

*[End of "Far-Fetched."]*

[*The home returns. Shattered glasses cover the rug. A Quasar looms in the distance.*]

### 16. POINT

(*SINGULARITY suddenly awakens and sits up on the table, with one eye open. They find the Big Bang Taser in their hand. They toss it away. They get off the table and make their way to the rug. They notice the Quasar. They accidentally step onto the glass. They fall onto the rug. They hold their foot in pain and agony. Their missing eye is towards the rug. They progressively become a singularity on this rug of spacetime.*)

### **SINGULARITY**

WHERE IS THE POINT IN ALL THIS TROUBLE?

ALONE...

I TREMBLE AT THIS POINT OR  
PERIOD.

MY POINT IS MOOT WHEN TIME HAS SENTENCED  
MY KIDS...

TO A LIFE ON THE EDGE.  
NO RETURN.

WHAT IS THE POINT OF THE UNIVERSE?

SINGLE...

WHAT IS THE ENTIRE POINT  
WITHOUT US?

(*Hiding their face.*)

(*The TIDALS remain absent. Their barks echo and repeat in the distance.*)

### **TIDALS**

Single! Singularity! Single! Singularity! Single! Singularity!



(*SINGULARITY shivers.*)

(*The MULTPLICITIES are in the audience.  
They break through the barks.*)

### **MULTPLICITIES**

WHAT IS THIS POINT TO MAKE, WHEN THEY'RE MADE?  
SINGLE  
PARENT WHO MADE MANY POINTS  
LIKE ALL THIS.

(*SINGULARITY peeks out their remaining eye.*)

[*The six Galaxies in the Galaxy family are projected or physically demonstrated via props or puppets in the distance.*] ]

### **TIDALS**

(*Echoing and repeating.*)

Single Clarity! Single Clarity! Single Clarity! Single Clarity!

(*SINGULARITY sits upright.*)

[*The spotlight lands on SINGULARITY. It progressively grows elliptical and eventually becomes the only light.*] ]

### **MULTPLICITIES**

THERE IS NO POINT TO REVERSE.  
THERE IS NO US IN YOUR VERSE.  
THE POINT OF THIS UNIVERSE  
IS YOU...

(*SINGULARITY meditates.*)

**SINGULARITY**

THE POINT IN YOU IS A UNIVERSE.  
THE POINT IS YOU.

*[The light dims to a singular point on  
SINGULARITY's inescapable heart.]*

*[End of "Point."]*

*End of Act*

# ACT II

[*SINGULARITY's Backstory and Past Universe*]

*[Wonders fill the theatre. The front of the stage is solely lit. The stage is dark.]*

(*GRAVITY remains absent. They narrate.*)

### **GRAVITY**

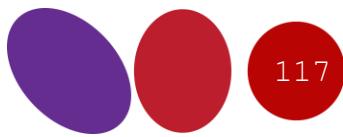
An eternity ago in a Universe unlike any other that we could ever fathom, these supernatural beings, called Multiplicities, gave birth to a very special Galaxy. They named their baby, Singularity. And like any other Galaxy, this one bloomed. However, Singularity was unlike their guardians. This Galaxy had a supermassive heart. In fact, it was so massive that their parents couldn't even hold their cluster of stars. Singularity sucked the energy out of them; not even light could escape it.

Their parents wanted to raise them but not beyond who their child already was. And Singularity was better at raising... Hell. Wherever they went, so did the space. They literally sucked the energy out of the room, too. They were bent on bending light. But even though they warped time itself, time still flew. It was time for Singularity to meet their event horizon.

Eventually, the Multiplicities sat Singularity down and let them know what is in their heart(s). And with that heartless truth, Singularity left behind their family, ran away from their Center, and fell off the Edge of their Universe.

### **17. HEAT DEATH**

*(In the audience, SINGULARITY stands. They are youthful and resplendent as a Galaxy. They shoot FIX in the face with the Big Bang Taser. They run away from INVARIANT and FIX, their parents. They slide towards the stage and grab ahold of the frontmost seat in the theatre. They hold on for dear life.)*



[*The fabric of spacetime stretches and eventually rips.*]

(*SINGULARITY tumbles in front of the stage. They hold a torn chunk of dark fabric, shielding the Big Bang Taser. They limp alongside the front of the stage. They find a spot to collapse against. They shiver as they feel lost in an interdimensional plane between Universes. They grow aware that they can never return home and will never be with their parents ever again for all eternity.*)

### **SINGULARITY**

HEAT DEATH IS SO COLD...

(*INVARIANT and FIX get up from the audience. They resemble laws of physics enforcers. They look about. In a pattern, they shout SINGULARITY's name in the hopes of finding them, then grieve with one another.*)

### **INVARIANT**

Singularity! Without you, we are *nothing*... We love you. Please, come home. We need you. Return to the Center of the Universe, at once. We'll balance time for you. If you're going to run off into the cold, dark Universe, at least bring a jacket. Our precious Galaxy, where are you?! Multiplicity. File a report. Our baby is missing!

### **FIX**

Singularity! Why did you grab my taser?! The Big Bang Taser. Multiplicity. We're the laws of physics enforcers. We're a part of the force... We raised them without forcing doubt on them. *But you just had to go and tell them their supermassive disorder.* Now, my face knows supermassive disorder. Ow... I authorized you to keep their center a secret!

**SINGULARITY**

I DON'T HAVE A... BLACK HOLE FOR A...

**INVARIANT**

Singularity! Multiplicity. They have a heart. And a black hole for one too. Don't you ever find it weird? Do you not see the problem of stars orbiting that chasm of theirs? *Oh right*, you can't see since they shot you in the face... Anyways, what would cells want to do circulating a heart? Why can't their stars be fixed like ours? I would regret as a nomy/mother/father if I spaghettified the truth.

**SINGULARITY**

I DON'T HAVE A... BLACK HOLE FOR A...

**FIX**

Singularity! Multiplicity. Spaghettify? You ripped a wormhole in them. Though they have a heart, it seems functional. And still, you broke their heart. You dug into this dark energy. You've always regretted their supermassive heart and the spirit and soul that came with it. I can't comprehend how that is mathematically possible, but your quantized ego did it.

**SINGULARITY**

I DON'T HAVE THE HEART...

**INVARIANT**

Singularity! Multiplicity. Ever since they were born, the doctors were right. They wouldn't fit in school. The school literally fit in them. Our own fortress, our home is trashed everywhere they go— Forget it. My ego is atomic, but my love for our little nebula is galactic. Out there, they themself will be even more mutated and deformed. Agony. Ionized gas. They had to empirically know what their heart is capable of. Some millennia.

**FIX**

Singularity! Multiplicity. We won't get another millennium with them. They didn't have to know who they truly are inside. They could have experimented with their own internalized theories. You could have been a general relative to them... You took the light out of our little cluster of stars!

**SINGULARITY**

I DON'T HAVE A... BLACK HOLE FOR A...

I DON'T HAVE A... BLACK HOLE FOR A...

I DON'T HAVE THE HEART...

I DON'T HAVE THE... BLACK HOLE FOR THE...

I DON'T HAVE THE... BLACK HOLE FOR THE...

I DON'T HAVE A HEART!

**INVARIANT**

Singularity! Multiplicity. A Galaxy is meant to shed light, not suck the light out of any room into their little event horizon! They have been relativitistically impossible to handle.

*(Fighting their despondence.)*

We're heartless. Children will lose their hearts as did their parents eventually... They will shed light, the moment they hold a Galaxy of their own.

**SINGULARITY**

I DO NOT HOLD... ANY ANGER...

**FIX**

Singularity! Multiplicity. Declination!

**SINGULARITY**

I CAN'T BARGAIN... UP ENERGY...

**INVARIANT**

Singularity! Multiplicity. We looked up and down. Right ascension?

**SINGULARITY**

I THINK ON WITH... NO DEPRESSION...

**FIX**

Singularity! Multiplicity. We looked left and right. Fourth dimension?

**SINGULARITY**

I ACCEPT HEAT DEATH...

**INVARIANT**

Singularity! We looked over and under every fabric of spacetime...

*(Silence. The MULTIPlicities realize that their child has forever vanished.)*

**INVARIANT****FIX**

Sing— Our baby fell off the Edge of the Universe!

*(The MULTIPlicities weep for all eternity.)*

*[End of "Heat Death."]*

**SINGULARITY**

I am single.

(*The MULTIPLICITIES say SINGULARITY's name under their breaths then try to justify their heartache.*)

### **INVARIANT**

Singularity... I deny they broke the laws of physics. They must be in the courtyard of another plane. Within the walls of a new stage. It has to be. Or not. They broke the fourth dimension...?

### **FIX**

Singularity... I am angered that you would care whether or not they are breaking any law. At least, no longer our laws. We know that they can't break our universal laws.

### **INVARIANT**

Singularity... I bargain the fact that the laws of physics are different in other universal jurisdictions. They don't know if they'll break the other laws of physics.

### **FIX**

Singularity... I am depressed. Either way, they'll break...

(*SINGULARITY breaks down.*)

### **INVARIANT**

Singularity... I accept they'll get eaten alive by unknown forces...

(*A TIDAL remain absent.*)

### **TIDAL**

Force!

**FIX**

Singularity... I have a hunch, that singleness crunches...

*(On stage, the TIDALS approach SINGULARITY.)*

**INVARIANT**

Multiplicity... I hope our baby makes good use of our Big Bang Taser...

*(SINGULARITY pulls out the Big Bang Taser.  
They ignite and aim it towards the TIDALS)*

**SINGULARITY**

Big freeze! What kind of forces do you exert—?

**TIDAL(s)**

Force!

*(SINGULARITY sways a bit.)*

**SINGULARITY**

Like to echo, huh?

**TIDALS**

Force force force...!

*(SINGULARITY feels the tidal force.)*

**SINGULARITY**

Hits like a tide! Is that all you can bark?



**TIDALs**

Fall!

(*SINGULARITY falls over themselves.*)

**SINGULARITY**

What are you howling about?!

**FIX**

Multiplicity. When they have a baby of their own, I hope theirs don't shoot our baby in the face like our baby did to me.

(*SINGULARITY accidentally electrocutes themselves with the Big Bang Taser. They shock themselves into a stupor.*)

**TIDALs**

(*Repeating.*)

Big big big big big. Bang!

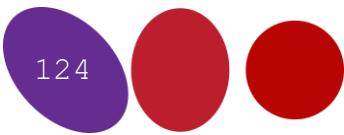
(*SINGULARITY catches their breath. They decide to stow away the Big Bang Taser inside the fabric. They accept their fate.*)

**SINGULARITY**

Bring the heat...

(*The TIDALs grab ahold of SINGULARITY.*)

[*The light shifts to the Dome Home on stage. The home does not yet contain spacetime rug.*]



(*The TIDALS lift SINGULARITY onto the stage. They carry SINGULARITY into the home. They set down SINGULARITY. They grow tame. They present the tidal pup to SINGULARITY.*)

(*SINGULARITY sets down the fabric, where the rug will presently be.*)

**SINGULARITY**

You accept my black-hole heart?

**GRAVITY**

(*Adorably like a puppy.*)

Force! Force! Force!

(*SINGULARITY gently takes ahold of the tidal pup. They feel the sudden weight upon them.*)

**SINGULARITY**

The Gravity of it all!

(*Bonding with puppy GRAVITY.*)

(*INVARIANT and FIX return to their audience seats. They pray together.*)

**INVARIANT**

Let us save space and believe that our Galaxy is in a better place.

**FIX**

Let us mention that our cluster of stars have broken the fourth dimension.

**INVARIANT**

Let us remember their black hole and how it freed our soul.

**FIX**

Let us be home, even when it's the hardest.

**INVARIANT****FIX**

Singularity is where the heart is.

**SINGULARITY**

*(Timidly interacting with the TIDALs.)*

Warmth, life... Nothingness can be so warm. I'm not single, apparently...

**TIDALs**

*(Gratefully howling.)*

Fall!

*[The home stows away.]*



[*The Fabric of Spacetime*]

(*JD and GRAVITY sit, eying SINGULARITY's eye.*)

**JD**

Force! You sounded like an adorable tidal pup.

**GRAVITY**

Now I am fetching.

**JD**

I wouldn't go that far.

**GRAVITY**

But Singularity sure did. And you should do the same.

**JD**

Before considering it, I have questions. Singularity was raised by tidal forces?

**GRAVITY**

Indeed. Your parent was raised by us.

**JD**

How did my siblings and I come to be?

**GRAVITY**

Singularity planted seeds of cosmic gas and stardust and stirred some nebulae... At least, that's what my parents told me.



(*JD observes SINGULARITY's eye.*)

**JD**

You and your parents saw eye to eye?

**GRAVITY**

We tidal dogs have visible spectrum blindness. But that's better than having half depth perception.

**JD**

I miss Singularity's other eye...

**GRAVITY**

Your spiral arm was not quite accurate. You were off your mark with your shot. Didn't hit two eyes with one taser.

**JD**

*I miss their presence.*

**GRAVITY**

You have my eyes, my ears, my nose, my energy. Don't waste your full potential, especially when this tidal force understands you more than the most massive black hole in the Universe has ever did. Thank you for learning to speak my language.

**JD**

No matter in the Universe has spoken in such lengths before. I mean, thanks for sharing your energy and telling your story... Are you sure you don't know where Singularity came from? And what did beyond the Edge of the Universe look like?

*[Projections or puppetry may help dive further into SINGULARITY's backstory, as they descend into darkness.]*

### **GRAVITY**

My family doesn't know them themselves. To reiterate, my parents and their fellow tidal forces smelt Singularity in an interdimensional ditch. They never quite picked up on what the Edge looked like as we tidal dogs are spectral blind. And to add, we have never seen any matter quite like Singularity, with a supermassive black hole for a heart. And one who supermassively hated themself.

The earlier eternities were spent trying to get this orphan to hide away their parents deep in their internal darkness. We taught them how to cluster nuclear pasta from our hunts for neutron stars. Singularity ascended to being the beta of the pack by magnetizing these neutron stars, when they took full advantage of that... Big Bang Taser. And soon, they became the alpha, when Singularity took advantage of us with it. My parents... Um...

Well, Singularity became what they called their parents: these Multiplicities; those who caused pain and hurt to those who are difference, such as us tidal forces. Free and wild Tidals. Stowing away their past family manifested into matters darker than their supermassive black-hole heart... Rolling back the Universe into that Dome you lived in made us locked in. But that made Singularity feel secured. Where the resources of the entire Universe were packed in that Dome Home of yours.

### **JD**

The Universe was wide and open?

### **GRAVITY**

Indeed like now, finitely infinite. Long before you were born. By the way, nothing shocked us more than when Singularity had you six.

**JD**

Me and my sibling's Universe exist due to Singularity's eye for all this... The clustering that they did to make us who we are.

**GRAVITY**

Look, everything hit us when Singularity birthed you all from packing stars, nebulas, whatever that black-hole heart did. However, your given values and internal laws weren't made by Singularity. The Edge did. Our journey did. I made you.

**JD**

I can't make it...

**GRAVITY**

You are everything to me...

**JD**

I am...?

*[There are sounds of marching.]*

Nothing...?

*(JD goes into hiding.)*

*(GRAVITY sentimentally remains.)*

*(JD grabs ahold of GRAVITY. They hide GRAVITY with them.)*

**18. BOUNCE BACK**

(The TIDALS march in, with WHIRLPOOL and CARTWHEEL trapped within.)

[The light of a Quasar beams in.]

(The TIDALS scatter around, leaving CARTWHEEL and WHIRLPOOL out in the open.)

[The song plays the leitmotif of "Anomaly is Everything."]

(TRIANGULUM remains absent.)

**TRIANGULUM**

NOTHING!

[This song plays the tone of "Time is Relative."]

(CARTWHEEL and WHIRLPOOL gives a reassuring smile to one another.)

(WHIRLPOOL spirals a nearby TIDAL.)

**WHIRLPOOL**

NOTHING!

(CARTWHEEL cartwheels another TIDAL.)

**CARTWHEEL**

NOTHING!



(*TRIANGULUM and ANDROMEDA treads in. They extend their arms to MILKY WAY's entrance.*)

**ANDROMEDA**

NOTHING!

[*This song plays the tone of "Fabric."*]

(*MILKY WAY draconically arrives. They blast rays like a Quasar.*)

**MILKY WAY**

NOTHIN'!

(*The GALAXIES cluster together.*)

**GALAXIES**

BOUNCE BACK!

(*Bouncing off and landing near their respective TIDALS. They choreographically fight the TIDALS, distinct in their combat. They pose or slow down whenever the song hits certain drums. Through forceful exposition, they detail themselves swiftly.*)

(*The TIDALS run away.*)

(*GRAVITY runs out and pounces on TRIANGULUM.*)

**GRAVITY**

Nothing, huh?!

[*End of "Bounce Back."*]

**CARTWHEEL**

The gravity of the situation has gone awry, Triangulum?

**WHIRLPOOL**

Not the time, Cartwheel.

**ANDROMEDA**

Ye always a good time to pull us in with a gravitational joke, Whirlpool.

**MILKY WAY**

Oval down, Andromeda!

**TRIANGULUM**

(*Sentimentally.*)

We're fighting like family again, Milky Way...

(*GRAVITY menacingly growls.*)

(*JD runs in.*)

**JD**

Down, Gravity! Down!

(*GRAVITY gets off TRIANGULUM.*)

Up, Gravity! Up!

(*GRAVITY helps TRIANGULUM up. They return to JD's side.*)



## GRAVITY

Speaking of fighting...

*(The GALAXIES bittersweetly look upon JD.)*

*(TRIANGULUM awkwardly bows.)*

*(The GALAXIES not JD glare at TRIANGULUM.)*

*(JD slightly tilts their head down.)*

*(TRIANGULUM runs to and embraces JD.)*

## JD

Family is...

## TRIANGULUM

I know... I know... Forgiving.

## GALAXIES not JD, TRIANGULUM

*Declinations.*

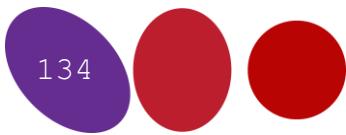
## TRIANGULUM

*Galaxies... Do not make me an anomaly...*

*(The GALAXIES hesitantly embrace JD.)*

## GALAXIES not JD

You're nothing without family...

**GRAVITY**

*(Tenderly.)*

Force...

*(The GALAXIES not JD turn to GRAVITY.)*

**GALAXIES not JD**

You're something. Not everything.

**JD**

Gravity is everything to me. I'm nothing without my tidal force.  
I will not return if you lay a spiral arm on my dog!

**TRIANGULUM**

It's our.

**GRAVITY**

Force!

**TRIANGULUM**

*They're ours.*

*(Disturbingly scratching GRAVITY's ear.)*

Gravity can stay with us. Just keep them grounded.

**JD**

That's the spirit of Gravity. Fix.

*(GRAVITY stays.)*

*(MILKY WAY hands their tiny dish to GRAVITY.)*

**MILKY WAY**

My planetary friends told me to feed you too.

**ANDROMEDA**

Long imaginative story... JD, how's life on the Edge treating you?

**JD**

Are you... On the Edge with me...?

**CARTWHEEL**

The Edge will never be reached.

**WHIRLPOOL**

What we're saying is that there ain't a reason to try to outrun the Fabric of Spacetime that is unrolling faster than the speed of light.

**TRIANGULUM**

Besides the infinitely expanding Universe, anything else happen?

**JD**

I learnt what it means to be far-fetched. Gravity learnt how to fetch.

**CARTWHEEL**

Fetch?

**WHIRLPOOL**

Far-fetched?

**JD**

It's when I toss a star and Gravity goes and retrieves it.

*(Demonstrably swinging their arm.)*


**JD (cont.)**

When a massive object goes rogue out of its natural gravitational center due to a tensor phenomenon... Eventually, my supermassive self burrows in the sand on the beach that holds this rogue star, and I send a tidal force to retrieve that ball, like a tide.

*(WHIRLPOOL presents  $\Delta t = \frac{\Delta t_0}{\sqrt{1 - \frac{v^2}{c^2}}}.$ )*

**WHIRLPOOL**

That makes the concept of time sound easy.

**JD**

Gravity discovered force. Uh, fma— Fmm— Fam.

*(GRAVITY presents  $F = AM.$ )*

**GRAVITY**

Force!

*(CARTWHEEL twirls their finger around their head to indicate lunacy.)*

**CARTWHEEL**

Gal, ya'll make us sound lunar.

**MILKY WAY**

Moooooon.

**TRIANGULUM**

Don't get Milky Way started. You want to do a galactic activity for old times' sake...

**JD**

What did we even do for old times' sake?

**MILKY WAY**

A board game of Tardigrades and Elevators?!

**JD**

Ah so napping...?

**ANDROMEDA**

Sometimes dreamt of being unfixed stars...

**JD**

We literally spent eternities lying dormant...

**GRAVITY**

*What else is there to do in a Dome?*

**TRIANGULUM**

Force force force to you too, Gravity.

**JD**

Gravity's got a point.

**TRIANGULUM**

Gravity has no point.



**WHIRLPOOL**

Singularity does.

**CARTWHEEL**

Singularity is no longer the point. Remember?

**JD**

Singularity...? Is our nomy/mother/father still at the Center of the Universe? Are they breathing and mediating alright?

*(MILKY WAY is about to break down.)*

*(ANDROMEDA hides away MILKY WAY.)*

**ANDROMEDA**

Singularity is self-absorbed as always.

**JD**

Why are you... Not with Singularity? As a family? And instead, you're here with an anomaly?

**CARTWHEEL**

Singularity told us to spend time...

**WHIRLPOOL**

Singularity told us to make time...

**CARTWHEEL**

Hunting you.

**WHIRLPOOL**

For you.

**TRIANGULUM**

However, we cleared our minds on this journey. Our mission had some clarity.

**ANDROMEDA**

We want to take the edge off you.

**GRAVITY**

*(Angrily.)*

Force! Force! Force!

**TRIANGULUM**

*Actually, jump off the edge with you!*

**JD**

I never said I wanted to jump off the edge. And Gravity. You know what Andromeda means...

**TRIANGULUM**

No worries, Gravity. You don't understand any better.

**JD**

Being called an outlier by you, I'm the only one who knows whenever there are liars here...

**MILKY WAY**

Yeah, we are liars.

**ANDROMEDA**

Yes, Milky Way. Ye are a special outlier.

**JD**

Thank you for admitting that you've been lying when you have actually been believing there is something out there like I do!

**TRIANGULUM**

Yup. Exactly. That's what we meant.

**GRAVITY**

Force! Force! Force!

**TRIANGULUM**

Well, I believe you when you said Gravity has a point.

**MILKY WAY**

You speak tidal forces?

**CARTWHEEL**

*What did Gravity say this time?*

**JD**

Gravity says... That you are a three-dimensional, three-sided, and a triangulated role model.

**TRIANGULUM**

Tell Gravity I told them that they are not a bad tidal force. We'll build a good doghouse for you. In fact, we haven't had a shelter over our heads and a nap in trillions of years. I'm sure it's getting to our heads. As JD is talking to tidal dogs now. Let's set up camp. Assemble the Continuum Checkpoint.



[*The Continuum Checkpoint*]

*[There are three huts or tents that resemble their Dome Home. The Left Ellipse is the doghouse, the Central Ellipse is the sleeping quarters, and the Right Ellipse is the command post.]*

(*GRAVITY sits in the Left Ellipse.*)

(*JD peeks into the Left Ellipse.*)

**JD**

*Thin-disked, halo-less, clump of gas and dust... Ha.*

(*ANDROMEDA heads into the Center Ellipse.*)

**ANDROMEDA**

*Finally. Some elliptical shuteye.*

**GRAVITY**

*Force...*

**JD**

*Triangulum is not shaping up to be who they were... We all grow out of the Ellipse at some point.*

(*Ironically missing the point of the camp.*)

(*TRIANGULUM sits down in the Center Ellipse.*)

[*A whoopie cushion is heard.*]



(*CARTWHEEL and WHIRLPOOL high five.*)

(*MILKY WAY snickers.*)

(*TRIANGULUM may pull out a whoopie cushion.*)

### **CARTWHEEL**

You dig our cluster?

### **WHIRLPOOL**

Are we merging our masses?

(*JD wave to GRAVITY. They enter the Center Ellipse.*)

### **MILKY WAY**

Andromeda. Sing Cartwheel and Whirlpool and JD your space shanty.

## 13. GLOBULAR

### **ANDROMEDA**

EVERYTHING IS A BIG CLUSTER FLUX.  
THAT IS THE SPIRIT, ISN'T IT?

MATTERS COME AND GO.  
CRUXES OF FORCES THAT HOLD

ALL US TOGETHER.  
IT'S WHY WE CLUSTER OUR STARS.

AS FOR CARTWHEEL, WHIRLPOOL, AND... JD,  
LET THEM JOIN THE GLOB. GLOBULAR.

(*The GALAXIES poorly recite "Globular."*)

[End of "Globular."]

**TRIANGULUM**

It certainly doesn't quantum tunnel your ears, does it?

(*CARTWHEEL spontaneously embraces MILKY WAY.*)

**WHIRLPOOL**

Milky Way, you've grown up. We missed a lot. It's good to spend the rest of time with you.

**MILKY WAY**

You left me two die...

(**CARTWHEEL**)

(Your voice is warped...)

**WHIRLPOOL**

We didn't go that far...

**TRIANGULUM**

Just billions of parsecs far...

**MILKY WAY**

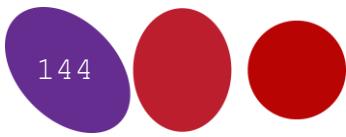
You did leave me two die... I lost one of them.

(*Pulling out the Tardigrades and Elevators board game. They beginning setting it up.*)

But we can roll with one... Tardigrades and Elevators, anyone?

**JD**

We missed you a lot...

**TRIANGULUM**

You missed the stellar parts.

**ANDROMEDA**

I had to supernova their zit...

**WHIRLPOOL**

Childhood goes by quick while teenage years are slow. A ton of weight ahead of you, Milky Way, such as these red giants.

**CARTWHEEL**

Time sure is relative.

**TRIANGULUM**

What have you been up to, JD?

**JD**

I remember the primordial phase, Milky Way... Um, besides getting down and playing fetch with Gravity, I haven't really been able to do anything.

**TRIANGULUM**

Able...? Well, I am able to get a head start on getting you all to do much more. I am going to head over to the command post. JD, feel free to join. We'll be mapping out our next steps, if you want to get to that *Edge of the Universe* more efficiently.

*(Heading to the Right Ellipse. They take out the snow globe's base, which has been partially restored. They take out some tools and begin fixing the snow globe.)*



(The *GALAXIES* in the Central Ellipse play amongst themselves. They try to recite "Globular." Soon, most of them fall asleep.)

(*CARTWHEEL* heads to the Right Ellipse.)

**CARTWHEEL**

Whatcha got there?

**TRIANGULUM**

Nothing.

**CARTWHEEL**

Gal...

**TRIANGULUM**

Our home.

**CARTWHEEL**

Do you need help building it?

**TRIANGULUM**

I shouldn't have trusted you to wall the family together... But the foundation... I could use your support.

(*CARTWHEEL* holds onto the snow globe for *TRIANGULUM*.)

(*GRAVITY* pounds against the Left Ellipse.)

**GRAVITY**

Force! Force! I need your support, JD! Force! Force!

**ANDROMEDA**

Can you uh... Let me enjoy this first beauty sleep in trillions of years? Please...

**WHIRLPOOL**

*(Meditating in their sleep.)*

T... *(Snore.)* Over square root of one minus velocity...

**MILKY WAY**

Would Gravity like space chocolate...?

**JD**

I know how to handle my dog. Absolutely no chocolate, natural or artificial. Dogs don't need that kind of poison, Milky Way. Thank you very much.

*(Heading to the Left Ellipse.)*

What's up, Gravity?

**GRAVITY**

As Whirlpool alludes to, T. Time. You're spending your downtime being an unmovable Galaxy, once again.

**JD**

I need a break from traversing this Universe near lightspeed.

**GRAVITY**

I'll say this lightly. I'm forced to be unmovable. A tidal force needs their wide-open space!

**JD**

I'm sure you'll grow on the Galaxies.

**GRAVITY**

I watched your perspective grow. You've grown up, JD. The others haven't change much.

**JD**

Cartwheel has their ring. Whirlpool basically has two galactic brains now. Andromeda is coming out of their shell...? Milky Way is now playing with their Quasar. And Triangulum, *is the anomaly* haha.

**GRAVITY**

Yet, they don't at all see what you see. They don't see eye to eye. All they will ever see is nothing. Sure, I cannot see what you see beyond the Edge due to spectral blindness as a dog, but a tidal force can smell the wonders.

**JD**

Hey, I saw nothing too, when I was a teenage Galaxy like all them.

**GRAVITY**

Am I Abell?

**JD**

No... Abell is... It's not clear who they are yet.

**GRAVITY**

Well, if Abell is something. Then I'm truly nothing.

**JD**

Don't say that. Tell you what, I'll spend the millennia in this doghouse with you.

**GRAVITY**

Home is everything between the edge of each ellipse in these Ellipses.

*(JD and GRAVITY nap by one another.)*

*(ABELL looms in the audience.)*

*(JD looks out to the Edge.)*

**JD**

Abell...

**GALAXIEs not JD**

*(Asynchronously.)*

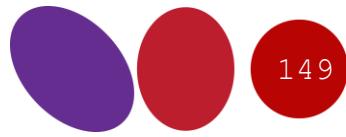
SPT0615-JD...

**GRAVITY**

*(Barking in their sleep.)*

Big Big Big Big Big. Bang...

*(TRIANGULUM finishes assembling the snow globe.)*



## 19. APPARENT

**JD**

ABELL, CAN YOU CLEARLY MAKE OUT MY WORDS?  
WE'RE IN A DIMENSION CALLED DREAMS.  
IN HERE, I CAN BE WAY MORE TRANSPARENT.  
I NEED TO UNWRAP OUR FABRIC.  
  
I MUST REACH THE NEXT STAGE OF LIFE.  
I MUST JUMP FROM ONE ELLIPSE TO ANOTHER.  
I MUST LET GRAVITY TAKE ME.  
I MUST BE APPARENT.  
DO/CAN YOU HEAR ME?

*(ABELL stands. They look about.)*

*(JD walks out in a trance.)*

STEP OUT OF THIS ELLIPSE.  
WHERE THE CUTTING EDGE WILL BE...  
SEA WITH OTHER ELLIPSES.  
I SEE YOU FROM MY TANGENT.

*(CARTWHEEL and TRIANGULUM notices that JD is sleepwalking.)*

ABELL, CAN YOU CLEARLY MAKE OUT MY LIGHT?  
I'M IN A TREE THAT SHOULD LET GO.

*[Visually, a silhouette falls off a stage light. This emits an intense spotlight on JD.]*

*(MILKY WAY stares out.)*



**JD** (cont.)

OUT THERE, I'LL ALWAYS BE YOUR BIG APPLE.  
I NEED TO WRAP UP THIS EPIC.

*[The light is solely on JD.]*

I WILL REACH THE NEXT STAGE, CALLED LIFE.  
I WILL JUMP OFF THIS ELLIPSE INTO CIRCLES.  
I WILL LET GRAVITY GROUND ME.  
I WILL BE APPARENT.  
DO/CAN YOU SEE US, CHILD?

*(Reaching out over the edge of the stage to ABELL.)*

*[End of "Apparent."]*

**GALAXIEs not JD, ANDROMEDA**

Your verse ends here!

*(JD suddenly awakens.)*

*[The light reveals CARTWHEEL, WHIRLPOOL, TRIANGULUM, and MILKY WAY surrounding the Left Ellipse.]*

**TRIANGULUM**

Our Universe doesn't have to...

**JD**

You don't look well-rested.

**CARTWHEEL**

The nap was only a few million years.

**TRIANGULUM**

Don't toy with our hearts, JD. Who is this Abell? I, too, never can sleep, spending all the time worrying about you.

**CARTWHEEL**

I cannot let time make my siblings grow older and apart. From our littlest sibling to especially our biggest.

**WHIRLPOOL**

We missed Milky Way when they leapt from one ellipse to another.

**TRIANGULUM**

Anomaly is... Anomaly is...

**JD**

Anomaly is everything, I know...

**TRIANGULUM**

Listen to what I have to say or you'll hear Gravity from the farm up Multiverse. Anomaly isn't... Anomaly is not...

**JD**

Nothing. And, Singularity is nothing, too. And, Singularity is me. Maybe you someday. You all, eventually.

**CARTWHEEL**

This geocentrism...



*(JD pulls out their monocular. They point the monocular in the direction of the Center of the Universe)*

**JD**

Geocentric is putting all the attention on the Center of our Universe. Abell is an anomaly beyond the Edge.

**TRIANGULUM**

I see nothing out there! And I see nothing in you!

**JD**

That's the point.

**GALAXIES not JD, MILKY WAY**

We see everything in the Center.

**JD**

What's the point?

**TRIANGULUM**

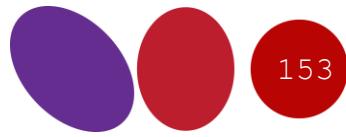
The point is that we've been missing you. I don't know what you are able to see in *nothing*. You'll face every terrain for it. I don't ever want any of you to see everything in nothing. You'll never face an escape.

*(Directing CARTWHEEL and WHIRLPOOL to JD.)*

The thing is there'll always be a limited scope.

*(WHIRLPOOL grabs ahold of JD.)*

*(CARTWHEEL snatches the monocular from their grasp and hands it to TRIANGULUM.)*



## 20. THE SCOPE OF THINGS

### **TRIANGULUM**

IN THE GRAND SCHEME OF THINGS,  
THERE REALLY SEEKS TO BE  
AN EYE ON CUTTING EDGES OFF OUR CENTER...

### **GALAXIEs not JD, TRIANGULUM**

*(Repeating.)*

LOOKING INWARD  
TO SEE OUTWARD.

### **TRIANGULUM**

IN THE GRAND SCHEME OF THINGS,  
THERE REALLY SEEKS TO BE  
AN EYE ON CUTTING EDGES OFF OUR CENTER...

### **GALAXIEs not JD, TRIANGULUM**

*(Repeating.)*

LOOKING INWARD  
TO SEE OUTWARD.

### **TRIANGULUM**

WITHIN THE SCOPE OF EVERYTHING,  
WITHIN THE SCOPE OF EVERYTHING,  
WITHIN THE SCOPE OF EVERYTHING  
IS PERHAPS SOMETHING.  
DO YOU KNOW?

### **GALAXIEs not JD, TRIANGULUM**

*(Repeating.)*

SCOPE OUT.

**TRIANGULUM**

Our relationship hasn't been well rounded as it should have been. Despite living in our Ellipse, there were many sharp corners that we casted you aside in. We cannot mend, but we could mold our house in order. You've lasted an eternity without cutting corners to get here. Can you take one millennium to scope us, for who we are...?

*(Handing the monocular to JD.)*

Everything?

*(JD almost peeks into the monocular towards their fellow GALAXIES. They suddenly scope out the Edge.)*

*(TRIANGULUM disappointedly takes back the monocular.)*

**TRIANGULUM**

WITHIN THE SCOPE OF EVERYTHING,  
WITHIN THE SCOPE OF EVERYTHING,  
WITHIN THE SCOPE OF EVERYTHING  
IS ONLY NOTHING!  
*FAMILY.*

*(Failing to crush the monocular in their hands. They humiliatingly hand the monocular to WHIRLPOOL. They look away.)*

*(WHIRLPOOL crushes the monocular.)*

*(ANDROMEDA twitches in their sleep.)*

*(JD seems upset.)*

*[End of "The Scope of Things."]*

**CARTWHEEL**

Gal. Time is up.

*(GRAVITY tries to discreetly reach into TRIANGULUM's clothes to find a monocular.)*

*(TRIANGULUM slaps away GRAVITY's hand.)*

**TRIANGULUM**

My attention span, a hundred thousand light-years across. Only Andromeda appreciates this scope as much as you do. You think such a device will plot your way to the Edge. This narrative of yours shall be in lockstep with ours, so-called ellipses.

**JD**

You are no ellipses to me!

**CARTWHEEL**

Anomalies are not normal. We are normal.

**WHIRLPOOL**

Whatever you say, Ring Galaxy.

**MILKY WAY**

Why can't you be more like me?

**CARTWHEEL**

Family means nothing because of you.

**MILKY WAY**

No time to drop balls on premise.



(*TRIANGULUM turns around, teary-eyed.*)

**TRIANGULUM**

Galaxies are everything, we have. You know?! Act like one!

(*JD looks at their knapsack.*)

**JD**

I know. Time is up. The essence of patience. I'm a proud ellipses. Light-years ahead of you. I'm an anomaly. Lightspeeds faster than you. Stars are everything, I know... and the Tidals.

**21. BIG RIP**

(*JD pours out all the balls onto the ground.*)

[*There are sounds of trampling TIDALS.*]

**GALAXIES not JD, TRIANGULUM, ANDROMEDA**

Fetch...?

(*The TIDALS rush in.*)

(*JD puts the knapsack over MILKY WAY's head.*)

**JD**

Tidal forces will act like tidal forces!

(*The TIDALS frantically collect the balls and disorient the GALAXIES not JD.*)

(*JD goes to the aid of GRAVITY.*)

Up for a trillion more years?



(*GRAVITY salutes their fellow TIDALS.*)

**GRAVITY**

Meet me at zenith!

(*JD and GRAVITY run off.*)

(*The TIDALS knock over the Ellipses in the Continuum Checkpoint.*)

(*TRIANGULUM tries to defend the interior of the Right Ellipse. CARTWHEEL tries to defend its exterior.*)

(*The TIDALS trample the snow globe, shattering it once more.*)

**TIDALS**

Big Big Big Big Big. Rip!

(*TRIANGULUM forgets what is going on. They hold and weep upon the shattered snow globe.*)

(*The TIDALS surround CARTWHEEL and WHIRLPOOL. They knock over the Central Ellipse.*)

(*ANDROMEDA awakens. Their heart is as white as a supermassive white hole.*)

**ANDROMEDA**

Big rip?! In my Fabric of Spacetime! Face the pearl in the oyster that we call, the Universe!

(*The TIDALS suddenly repel away from ANDROMEDA.*)



**ANDROMEDA** (cont.)

That's enough. You are all in big trouble, tidal dogs!

*(Going to the aid of MILKY WAY. They take the knapsack off of MILKY WAY. They link arms once again.)*

**WHIRLPOOL**

Time to deny the empirical laws of physics...?

*(The TIDALS suddenly repel away from CARTWHEEL and WHIRLPOOL.)*

**CARTWHEEL**

Time to not question white holes.

*(MILKY WAY notices a being off stage. They run out.)*

Milky Way, forward?! Where are you going, with your radio...!

**ANDROMEDA**

That solar system is a bad influence.

*(The MULTIPLICITIES are in the audience.)*

**MULTIPLICITIES**

You hold all light. The dark holds you.

**WHIRLPOOL**

Our Bạch Hò...?



(*SINGULARITY walks in, holding MILKY WAY's undetached embrace. They ignite the Big Bang Taser.*)

(*The TIDALS cower and run away.*)

(*The GALAXIES stand, shocked.*)

[End of "Big Rip."]

## 22. IT'S ABOUT SPACETIME

(*SINGULARITY embraces CARTWHEEL and WHIRLPOOL. They approach ANDROMEDA. They are literally repulsed by ANDROMEDA's white hole. They respectfully bow.*)

(*ANDROMEDA perplexedly bows back.*)

### **SINGULARITY**

IT'S ABOUT...  
IT'S ABOUT...  
IT'S ABOUT SPACETIME.

(*Heading to TRIANGULUM.*)

(*TRIANGULUM gives no mind. They are left heartbroken.*)

(*SINGULARITY pulls out the glass dome. They take the snow globe from TRIANGULUM.*)

[*The snow globe emits a beacon.*]



(*SINGULARITY fixes the glass to the snow globe.*)

(*TRIANGULUM suddenly hugs SINGULARITY.*)

(*The Galaxy family embrace.*)

[*The home returns.*]

(*Once the GALAXIES clean up the Ellipses that was the Continuum Checkpoint, SINGULARITY leads the family back to their Ellipse.*)

[*The home stows away.*]

[*End of "It's About Spacetime."*]



*[The Fabric of Spacetime]*

*[A cosmic curtain stands in the way of the Edge of the Universe/stage.]*

*(JD and GRAVITY exhaustedly skip in.)*

**JD**

At quadrillion parsecs, we hit a wall... A curtain of spacetime.

*(Banging their head against the curtain.)*

Are you sure you weren't able to steal their space telescope?

**GRAVITY**

Again, this dog won't go down for such a device. It'll make this epic journey too emotional with a dead dog, and it's already cliché enough.

**JD**

A little of me died inside with that scope, at the hands of Triangulum.

**GRAVITY**

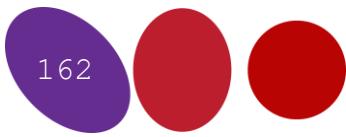
*Whirlpool.*

**JD**

All of me died on this side of this cosmic curtain at the end of the Fabric of Spacetime, at the heart of us.

**GRAVITY**

We need to adapt our hearts to the corners.

**JD**

What corners? Cutting edge... When there's nothing to cut!

**GRAVITY**

We haven't cut corners to get to where we are at. Why start now?

**JD**

Started from the Center, now we're on Edge...

**GRAVITY**

Relax...

*(JD paces back and forth.)*

Moving objects are difficult to image or imagine.

**JD**

At first, staying put, now we're moving.

**GRAVITY**

Staying put made you fall for the Edge in the first place. This will only rekindle your fall. You have nothing to fall back on...

**JD**

Nothing...

**GRAVITY**

I felt like nothing is real, when this tidal force was a fixed star due to Singularity.



**JD**

How do we unfix this reality, while fixing our realities?

### **GRAVITY**

No need to fix ourselves. We are perfect the way we are from our angle of arcseconds to the minuscule approximation errors. Sure, the errors are inevitable when everything is distant. But now's just like before the Big Bang, when only the Edge is distant, and your family is nearby.

*(Resting their head on JD.)*

**JD**

How do you have such a point of viewpoints?

### **GRAVITY**

My parents used this perspective to find yours by the Edge of our Universe eternities ago.

**JD**

Well, we're by the Edge, except we're the ones stuck in a bubble.

### **GRAVITY**

I'm a bit rusty. So, we could use the bubbles to cleanse our line of sight. Align your scope, which eyes will have to do.

**JD**

Where do we start?

### **GRAVITY**

We start with the stars.



### 23. PARALLAX

*(GRAVITY assembles  $d = \frac{1}{p}$ .)*

#### **GRAVITY**

RELAXATION TIME  
GETS DISTANCE TO EQUAL ONE OVER OBSERVED ANGLE.

*(JD seems doubtful.)*

DIVIDED, YOU ARE TO APPARENT

*[The atmosphere reminds JD of SINGULARITY.]*

*(GRAVITY makes JD sit.)*

CHANGE IN POSITION, SO SIT.  
DO GROUND YOURSELF.  
JUST PARALLAX.

#### **JD**

PERILOUS.

#### **GRAVITY**

PARALLAX. PARALLAX.

#### **JD**

PARANOID.

#### **GRAVITY**

PARALLAX. SEE THE STARS?  
PARALLAX. SEE THE STARS FROM WHERE YOU ARE.

(*GRAVITY discards the distance formula.*)

**GRAVITY** (cont.)

PARASITIC MINDS

GOT NOWHERE TO BURDEN YOU UNDER AND ENTANLED.

MISALIGNED, JUST LIKE TRIANGULUM'S TRIANGULATION, SO TRY...

(*Sitting by JD. They tilt their body, away from JD.*)

TO TILT YOUR HEAD.

FIND PARALLELS.

**JD**

PARADOX.

**GRAVITY**

PERMANENT PARADIGM.

(*JD tilts their head onto GRAVITY's shoulder.*)

**JD**

PARAGON...

**GRAVITY**

PLEASE RELAX. SEE THE STARS?

REMAIN LAX. SEE THE STARS FOR WHO THEY ARE.

RELAX.

**JD**

I'M RELAXED.

[*The light slightly peeks through a corner of the cosmic horizon.*]



(*GRAVITY instantly sits up straight. They wag their tail.*)

**GRAVITY**

YOU SEE?

[*The light dissipates.*]

(*GRAVITY feels disappointed.*)

**JD**

I SEE NOTHING.

(*Smiling.*)

JUST PARALLAX.

PARALLAX.

[*The light returns, growing brighter.*]

(*GRAVITY graciously returns to leaning their body.*)

**JD**

**GRAVITY**

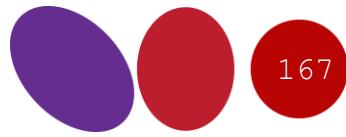
PARALLAX. PARALLAX. PARALLAX.

PARALLAX. FEEL THE STARS.

PARALLAX. FEEL THE STARS FOR WHO THEY ARE.

[*The curtain opens up.*]

[*End of "Parallax."*]



## 24. TANGENT

[*The Edge of the Universe*]

[*The horizon is painted with unseen colors. The air is scented with unscented aroma. The theatre constellates with ellipses, whether the geometric shape or the three dots. Six ellipses stand out, perhaps by appearance or they are clustered together.*]

(*GRAVITY is spectral blind, so they cannot see what JD sees. They enjoy the scent. They are just extremely proud that JD is finally living their dream.*)

### **JD**

WE HAVE GONE OFF ON A...

(*Taking it all in.*)

TANGENT.

(*Looking around for ABELL.*)

(*ABELL is not in the audience.*)

(*JD looks on, heartbroken.*)

### **GRAVITY**

THIS TANGENT YOU HOWL FOR...

I'M SPECTRAL BLIND.

WHAT DO YOU SEE BEYOND THE STARS? WHO DO YOU KNOW?

*[The music drowns out JD's answers, leaving the Edge of the Universe unanswered to our world.]*

*(JD mouths and points to the unknown. They may even point to the audience. Their finger lands on the six ellipses. They fall silent.)*

*(GRAVITY looks about.)*

*(JD decides to not cross this point and get their point across at home.)*

**JD**

WE HAVE GONE ON OFF A...  
TANGENT.

*(Wiping away their tears.)*

LET'S BE GROUNDED.

*[The Edge of the Universe follows JD.]*

I AM TAKING THE EDGE ON US.

*[End of "Tangent."]*

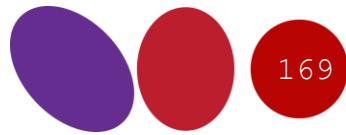
**GRAVITY**

*(Disappointedly.)*

You're taking the wide-open space... Away.

**JD**

Besides the eye, it might be a way for Singularity to forgive me. The only other way.

**GRAVITY**

What about Abell? You didn't speak of them here.

**JD**

Just like speaking with you, there were some misunderstandings. I made them up. I miscarried light. My supermassive heart played tricks on me. Come on. Let's go back.

**GRAVITY**

Forgive me if I don't like being crowded in. Hate closed space.

**JD**

Gravity, you always get me down.

**GRAVITY**

*Force...?*

**JD**

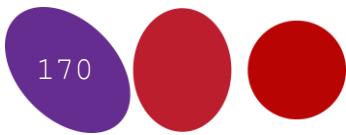
Apparently, you made me see unclearly. You had quintillions of years of fun.

**GRAVITY**

For a tidal dog, it feels like a millennium. A tidal dog wants their wide-open space! A tidal force isn't meant to be in a doghouse for another eternity.

**JD**

Adult or not, I still would love my family to not be estranged. I am wrong to be here for another millennium. Relax. I'm sure I can convince Singularity that free space made me and my siblings stronger.

**GRAVITY**

You're just like your nomy/mama/papa. There's no convincing you. My fellow tidal forces have never felt freer. For now, there is room for us to stretch the masses. There's a point in this tangent that you cannot go further. I have no stars left.

*(JD pulls out a single ball. They toss it.)*

**JD**

I have one.

*(GRAVITY retrieves the ball.)*

**GRAVITY**

You are lost.

**JD**

Where else could we go than back?

*(GRAVITY sets the ball by JD's feet.)*

**GRAVITY**

What else could we do than go? We can stay. Fix. I will not go back to the singularity that was.

*(Sitting.)*

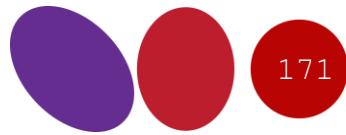
**JD**

Why didn't your parents stay?

**GRAVITY**

You've gone too far.

*(JD picks up the ball. They toss it.)*

**JD**

Far-fetched?

**GRAVITY**

I'm a tidal force. Stars are what I fetch. Hearts are not.

*(JD pulls out another ball out of thin air.)*

**JD**

I'm a Galaxy. Stars are what I make. Not necessary with my heart.

**GRAVITY**

Anything but your sweat and blood. With how spread out the Fabric of Spacetime is, there is not enough atoms to clump into a planet, let alone a star. Far-fetched will be a thing of the past. Don't let me stop you. Don't face the Big Freeze. I'll do with what is left of spacetime until you turn the Universe back into a singularity. SPT0615-JD... You are a Galaxy. You should be with your siblings. Like them, I got to bounce.

*(Leaving JD behind.)*

**JD**

You make me!

*(Tossing the ball off the stage.)*

Nothing is nothing without you...

*[A lone star glows in the cosmic horizon.]*

*(JD picks up the ball on the stage.)*

I am a true anomaly in this eccentricity.

*(Pacing along the edge of the stage.)*



**JD**

An eccentric anomaly... Go off of this tangent.

(*Dropping the ball off the stage.*)

[*Two stars cluster together in the cosmic horizon.*]

We'll be together in... Crunch Time.

**25. . . (Dot Dot Dot)**

(*JD remains at the edge of the stage. They turn around, with their backs towards the audience. They walk in place. They traverse through the universal tundra.*)

[*The entire Universe rolls by JD.*]

(*Eventually, there is a gathering of the TIDALs. They are brawling amongst themselves to claim the role as the alpha of the pack.*)

**TIDALs**

DOT DOT DOT...

DOT DOT DOT...

(*GRAVITY comes out victorious.*)

(*The TIDALs celebrate. They become aware of JD's presence.*)

[*The home slowly rolls out from the horizon.*]

**TIDAL**

That Galaxy is rolling back the Fabric of Spacetime.

**TIDAL**

That Galaxy is shutting down our universal dog park.

**TIDALS**

Let's spaghettiify them!

**GRAVITY**

If any tidal force lays a paw on this Galaxy, you will be buried six parsecs under.

**TIDAL**

That Galaxy is undoing everything we have worked for...

**GRAVITY**

That Galaxy is everything to me.

**TIDALS**

*Our alpha has an alpha?*

**GRAVITY**

This is between JD and GRAVITY.

*(Directing the TIDALS out. They exit.)*

*(JD goes into hiding when the home is near.)*

*[End of "...".]*



[*The Center of the Universe*]

(*The GALAXIES are disheveled and seem to have not eaten for quintillions of years.*)

(*WHIRLPOOL meditates on the rug.*)

(*ANDROMEDA wanders around outside the home.*)

(*CARTWHEEL and TRIANGULUM sit at the table, gazing into the snow globe.*)

**CARTWHEEL**

Milky Way, are you up for a game of Tardigrades and Elevators?!

**WHIRLPOOL**

Cartwheel, I may be down for that.

**TRIANGULUM**

Whirlpool, you know, a square like me doesn't comprehend your well-rounded interests.

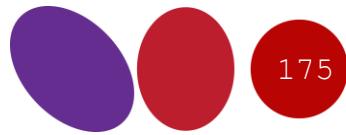
**ANDROMEDA**

Triangulum, you are a cube to us, which we'll start rolling once we get our toad out of their room...

(*MILKY WAY is in their offstage room.*)

**MILKY WAY**

Andromeda, I need to beat this level in Super Meridian Galaxy!

**GALAXIEs including JD, not MILKY WAY**

Teenagers...

(*ANDROMEDA pulls out their monocular. They scope out. They are in shock.*)

(*WHIRLPOOL completely stops meditating.*)

(*TRIANGULUM holds the snow globe close.*)

(*CARTWHEEL stares out.*)

(*MILKY WAY comes out of their room.*)

**MILKY WAY**

What?

(*The GALAXIEs not JD gather at the table.*)

**GALAXIEs not JD**

Our Edge has returned...?

(*SINGULARITY wears an eyepatch, made from the same material as the rug. They arrive with miniature dishes. They exhaustedly bow.*)

**SINGULARITY**

Declinations, family. The Galaxy family. It is that time. No hugs, Milky Way? Your planetary friends would love for you to hug your nomy/mama/papa again.

**MILKY WAY**

*Now's the end times, nomy/mother/father.*



### **SINGULARITY**

I'll never get used to each of your warp, waves, and wrinkles. Well, looks like someone is disappointed in how I am holding our Universe together. Rightfully so...

### **TRIANGULUM**

Quit the sass, Milky Way.

#### **CARTWHEEL**

Declinations?

#### **WHIRLPOOL**

The Galaxy family?

### **SINGULARITY**

You are all that I know. I can't meditate on it. I can only see you all for what you all are. The only thing we need is the Center of our Universe. This Dome Home. This Ellipse.

*(Looking upon the snow globe.)*

### **TRIANGULUM**

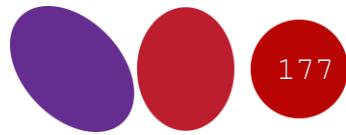
Well, the Edge of our Universe is found—

#### **ANDROMEDA**

To be here at the table, where everything are asterisks.

### **SINGULARITY**

You all are acting strange. Perhaps, it's the shortage of nuclear pasta here. I was wrong. That was a lot of risk, putting all the eggs in one singularity... The cosmos has spread itself out too thin. I am grateful for your sacrifice and the courage it took to step out of our home and onto the Fabric of Spacetime. It is apparent to me. Now back to being a formulaic parent. With my wrists and black-hole heart, I cooked you all up something special. Thin nuclear pasta and mini meteors.



(*SINGULARITY passes out the dishes.*)

(*JD reveals themself.*)

**CARTWHEEL**

*Gal, this is the first...*

(*SINGULARITY turns away from JD.*)

**SINGULARITY**

My first baby...

(*JD bows.*)

**JD**

Declinations, family. I... I miss you, Singularity.

**GALAXIES not JD**

Indeed, declinations... You didn't miss our nomy/mommy/daddy... Literally.

(*JD pulls out SINGULARITY's eye.*)

**JD**

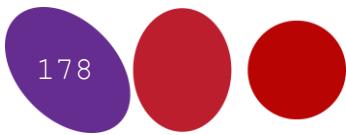
I, SPT0615-JD... Believe that you miss this.

**SINGULARITY**

I've never been better without my eye.

**JD**

You miss your parents.

**SINGULARITY**

I've stopped making light of my parents.

**JD**

That's the problem. You didn't let your parents make the light out of you.

**WHIRLPOOL**

Using antimetabole against the brightest celestial being in the Universe?

**JD**

I learnt from a tidal force who knew how to sound bright.

**MILKY WAY**

*JD speaks dog.*

**JD**

Gravity wants the wide-open space. I choice Singularity...

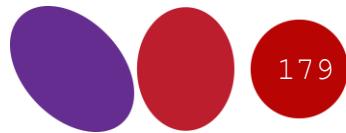
**SINGULARITY**

You chose wrong. I chose my children over that cursed Edge. I brought disorder to the family. But the tidal forces. When you kids are older, it'll be your duty to round them up.

**JD**

Gravity told me that the tidal dogs found you by the Edge of the Universe. Freezing in the heat death of the Universe. Orphaned. To speak physics, you didn't say goodbye to your parents.

*(SINGULARITY tearfully hums.)*

**SINGULARITY**

One more verse out of your wormhole—

**JD**

You chose to run away from your home.

**SINGULARITY**

They chose to reject my heart.

**JD**

Must you reject your eye, too?

**SINGULARITY**

My black hole can only accept, I repeat. For an eternity of peace, I've been accepting of Andromeda's repulsive white hole.

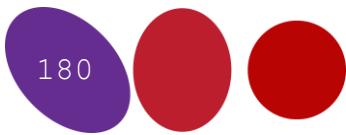
*(The GALAXIES perplexedly look on.)*

**JD**

And I repeat, history. Our black holes are meant to be ejected out to the Universe, for all to feel its "inescapable" light. Here's the Edge. Your parents are just beyond, somewhere.

**SINGULARITY**

My parents never accepted my presence. I saw the light in all of you. You didn't take my light in. They didn't know my heart. I knew yours very well. They didn't save space for my heart. I found space to save. My heart is in the right place. I see my parents in my soul. I am my parents. I'm rejecting you. The point is, you are who I was, as a point. There's no point filled beyond the Edges. Live your life, off the Edge. I have the Center to take care of.

**JD**

Abell isn't there. You were right. It is a heartless and lightless universe. In an Ellipse unlike ours, I have nothing to take care of. I am unable to share the light of my heart.

**SINGULARITY**

You are unable to find familiarity and their celestial body. Why share your light to a body that leaves you cold?

**JD**

The same could be asked for you.

**SINGULARITY**

Hmm, you certainly took care of me. And now you're crawling back to the warm embrace of family so you can feel abled again. The Galaxies out there...

**GALAXIES not JD**

There really is not nothing— Galaxies over the Edge...?

**SINGULARITY**

There is nothing! You'll know when you are eternities older. Five more Big Bangs to look forward to...

In that Ellipse, the galactic couples are fixed to their seats of darkness... No Multiplicity would ever share their light with me. They are heartless to the hearted. They will never hold light, so why shed yours? It is why I am a single parent. Not paired with a Multiplicity— Nobody will ever love and feed that supermassive heart of yours like your nomy/mama/papa.

**JD**

There comes a time when one must stop being apparent/a parent.



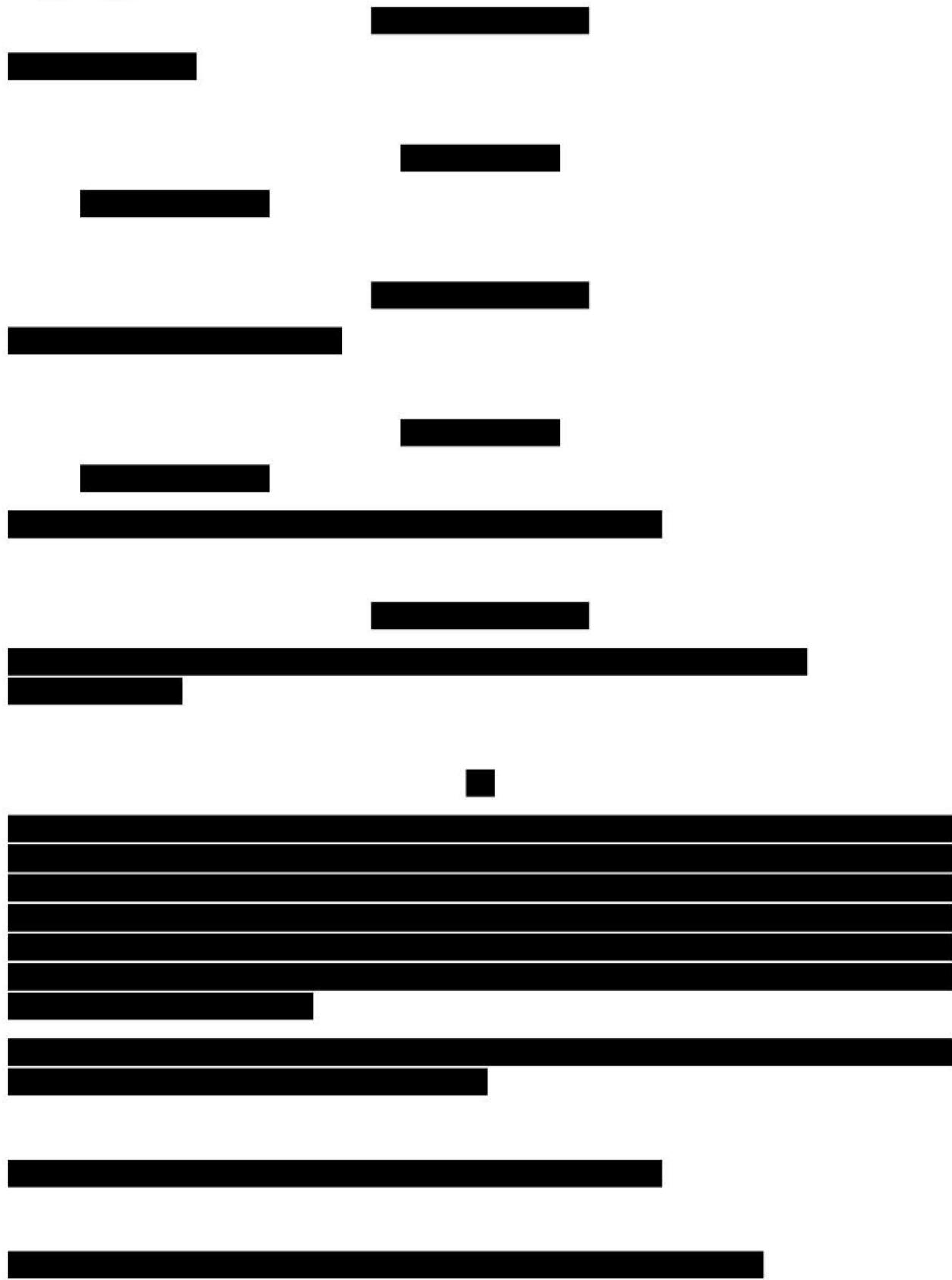
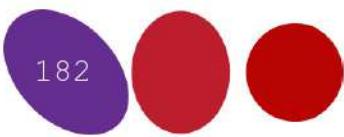
■

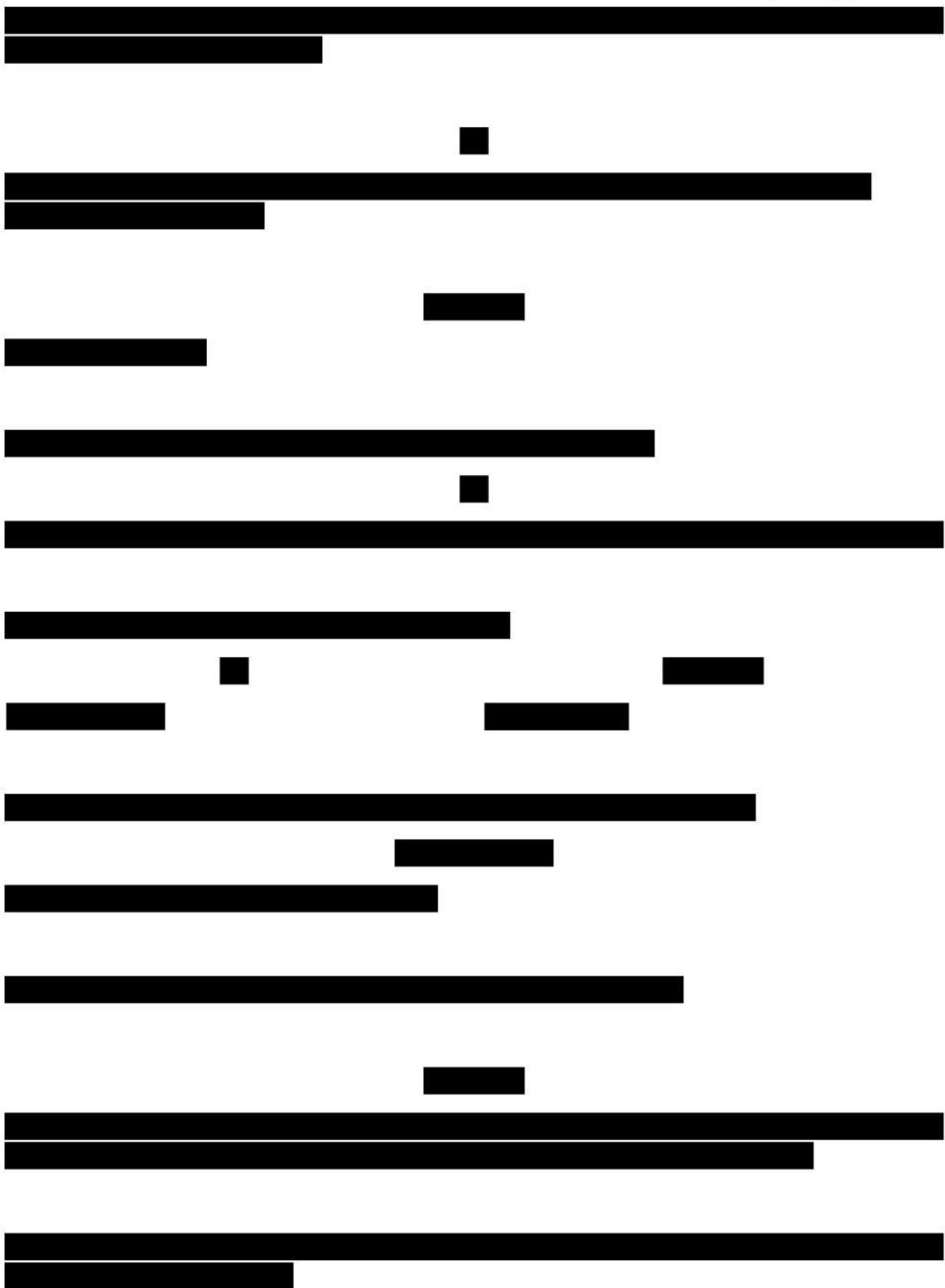


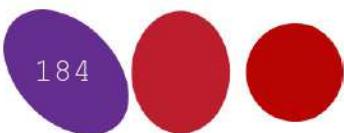
26. SHED LIGHT

■









[REDACTED]



[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]



[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

**ANSWER** The answer is (A). The first two digits of the number 1234567890 are 12.

**ANSWER** The answer is 1000.

[REDACTED]

Page 1

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[REDACTED]

[REDACTED]

1

**ANSWER** The answer is (A). The first two digits of the number 12345678901234567890 are 12.

100

100

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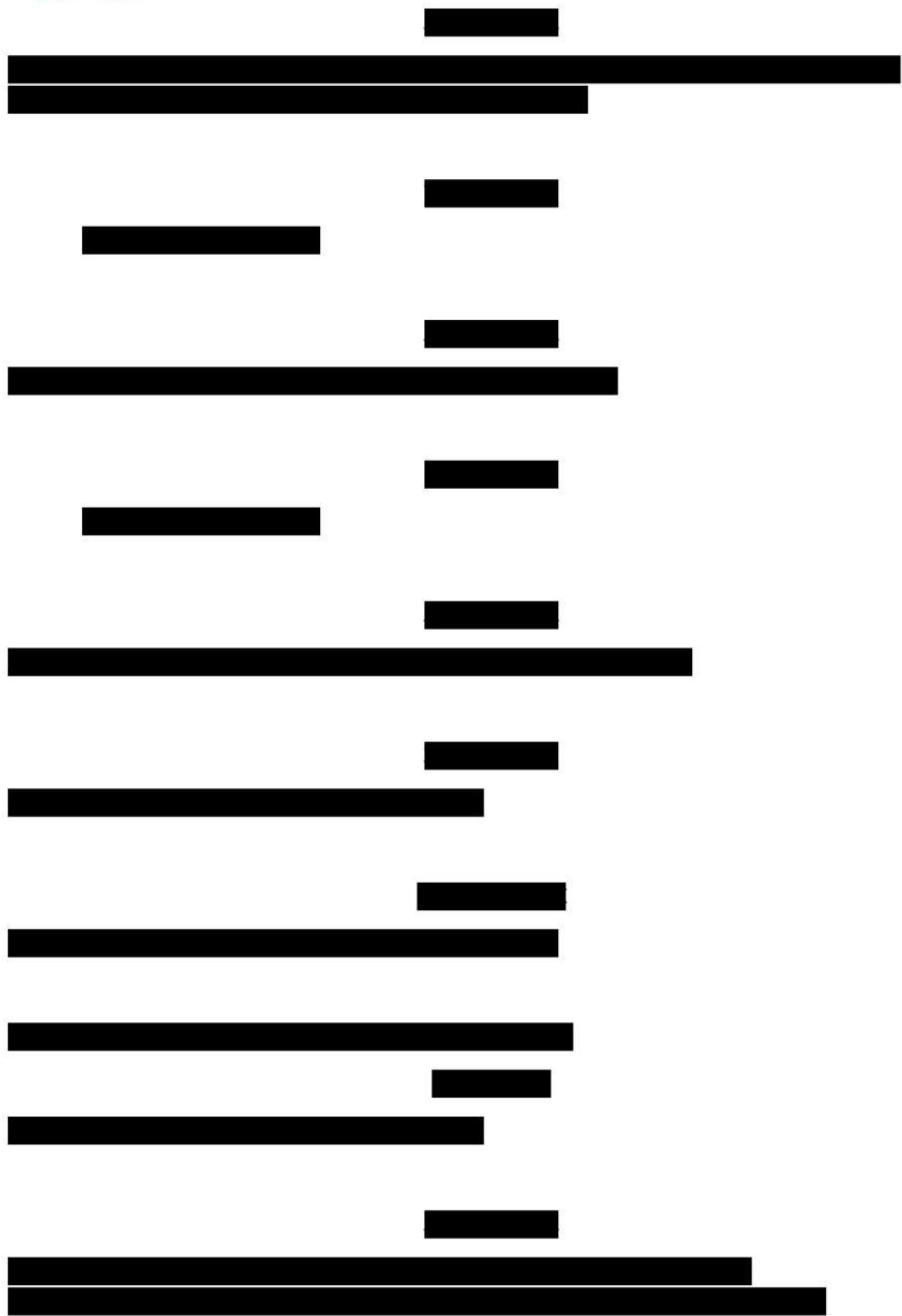
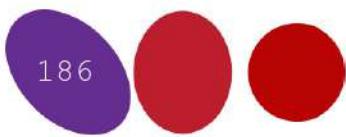
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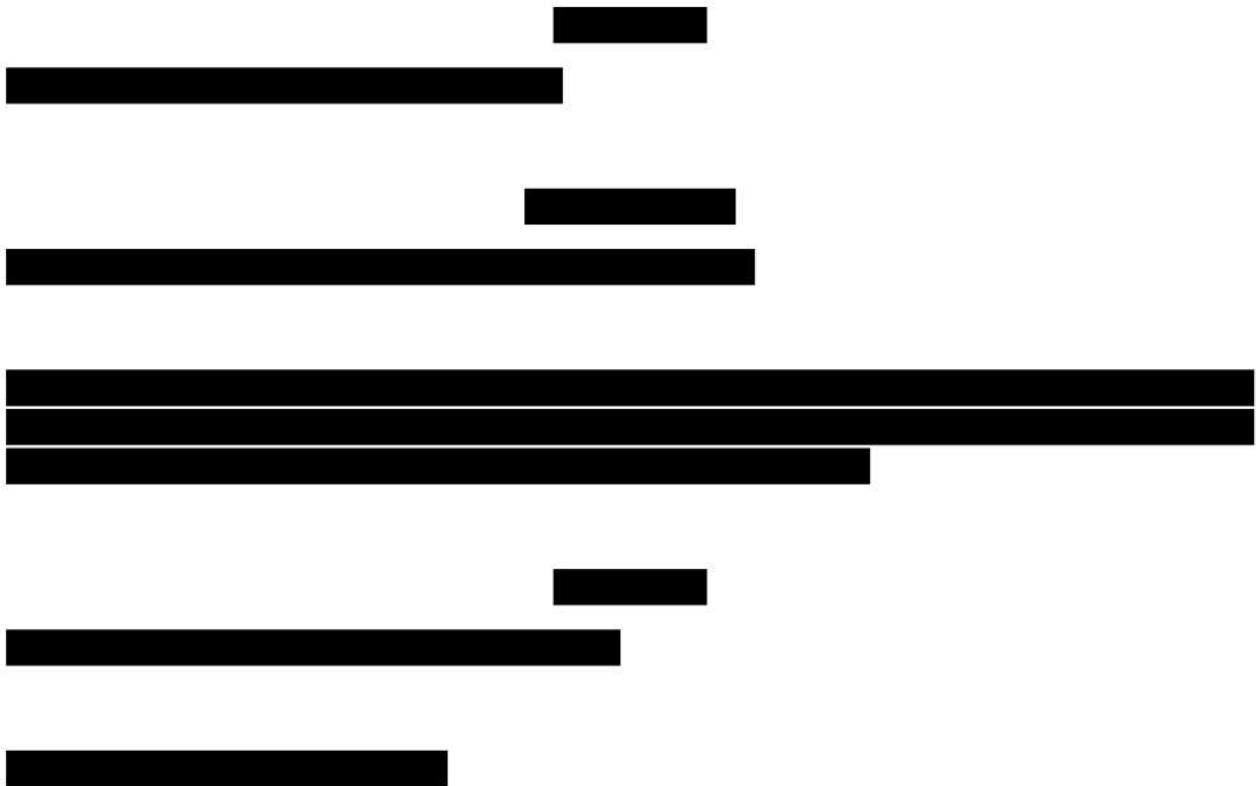
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**ANSWER** The answer is 1000. The first two digits of the number are 10, so the answer is 1000.

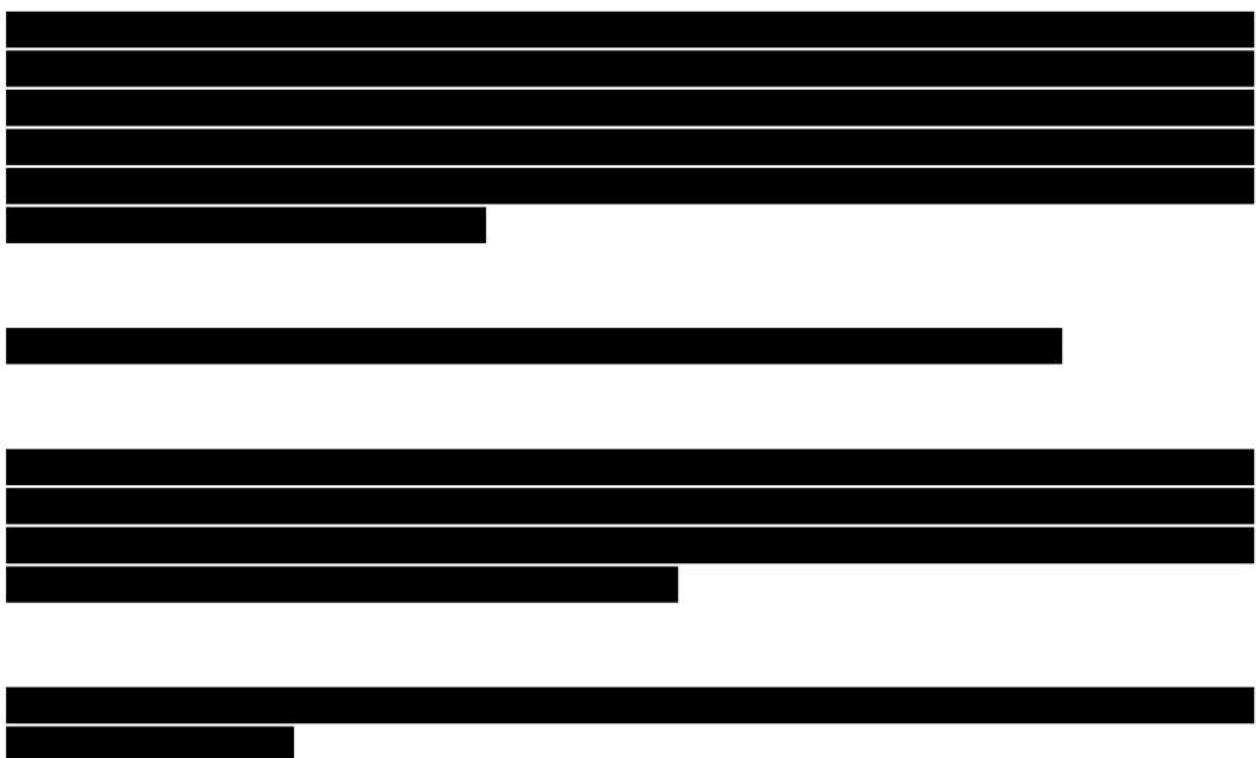
### 27. \* (Asterisk)

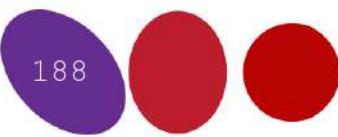
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28. REARTS IN THE RIGHT PLACE





[REDACTED]

[REDACTED]

[REDACTED]  
[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]  
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[REDACTED]

[REDACTED]

[REDACTED]

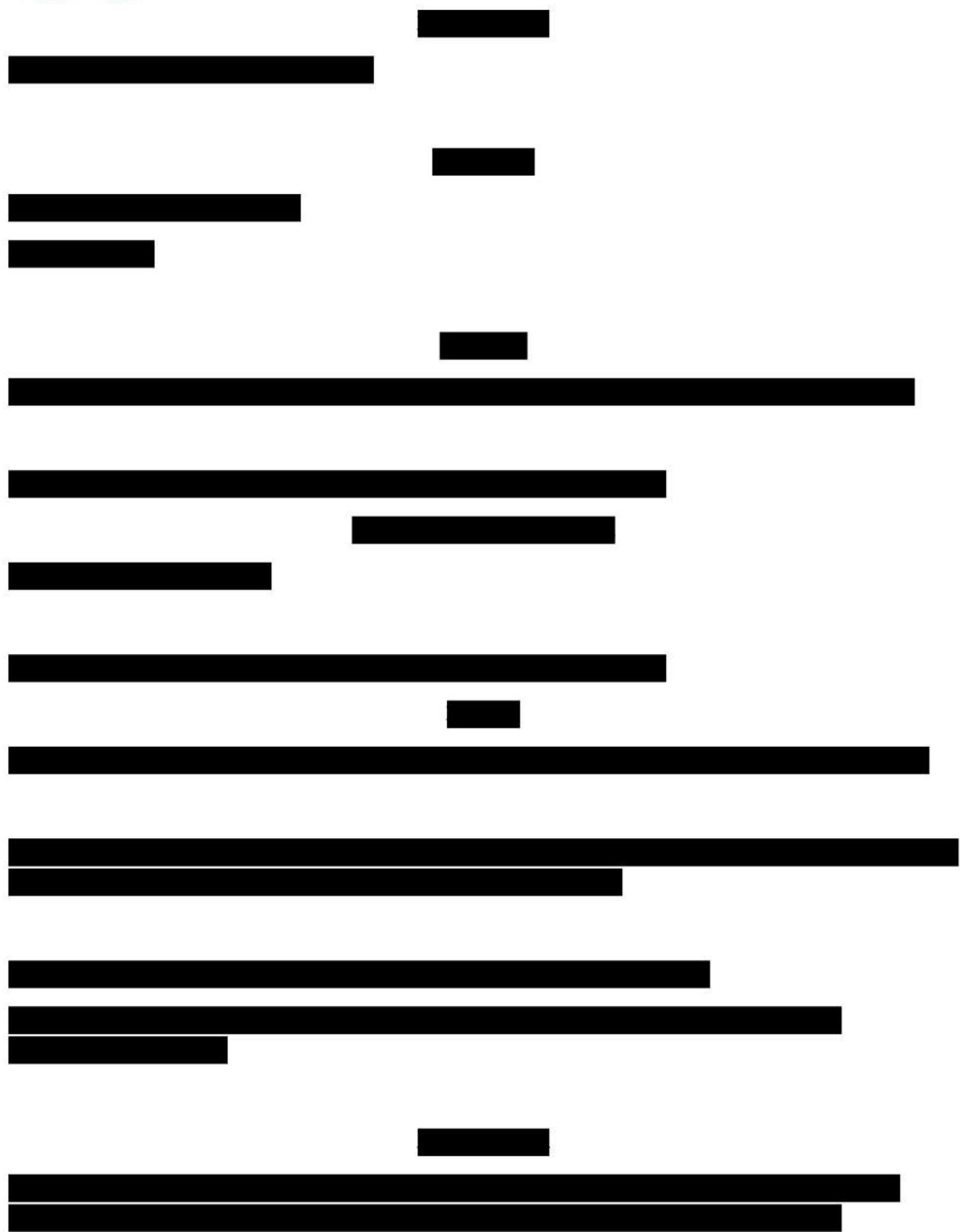
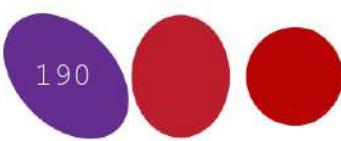
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[REDACTED]

[REDACTED]

29. (THE SPAGHETTIFICATION OF) ZENITH

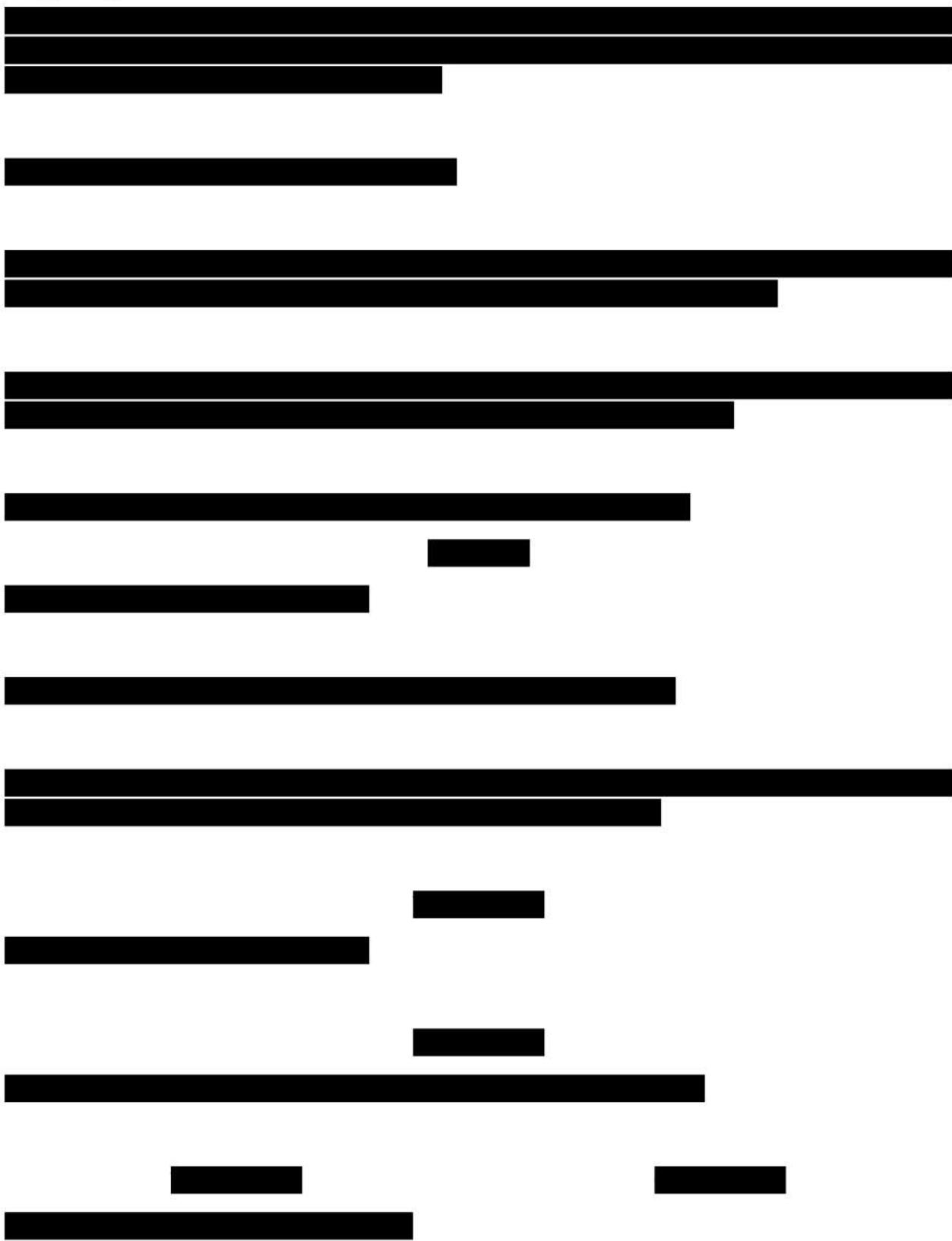
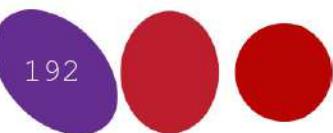
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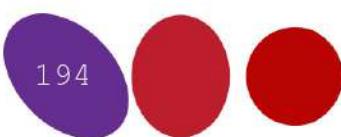




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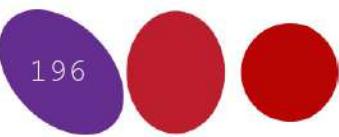


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[REDACTED]

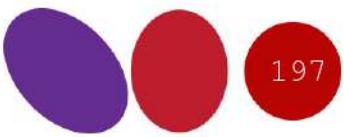


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30. BIG CRUNCH





1

**Figure 1.** A schematic diagram of the experimental setup for the measurement of the absorption coefficient of the sample.

**[REDACTED]**

[REDACTED]

[REDACTED]

**ANSWER** The answer is **100**.

[REDACTED]

Page 1

Page 1

**ANSWER** The answer is (A). The first two digits of the number 1234567890 are 12.

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**ANSWER** The answer is 1000.

**ANSWER** The answer is 1000. The first two digits of the number are 10, so the answer is 1000.

**ANSWER** The answer is 1000. The first two digits of the number are 10, so the answer is 1000.

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[REDACTED]

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[REDACTED]

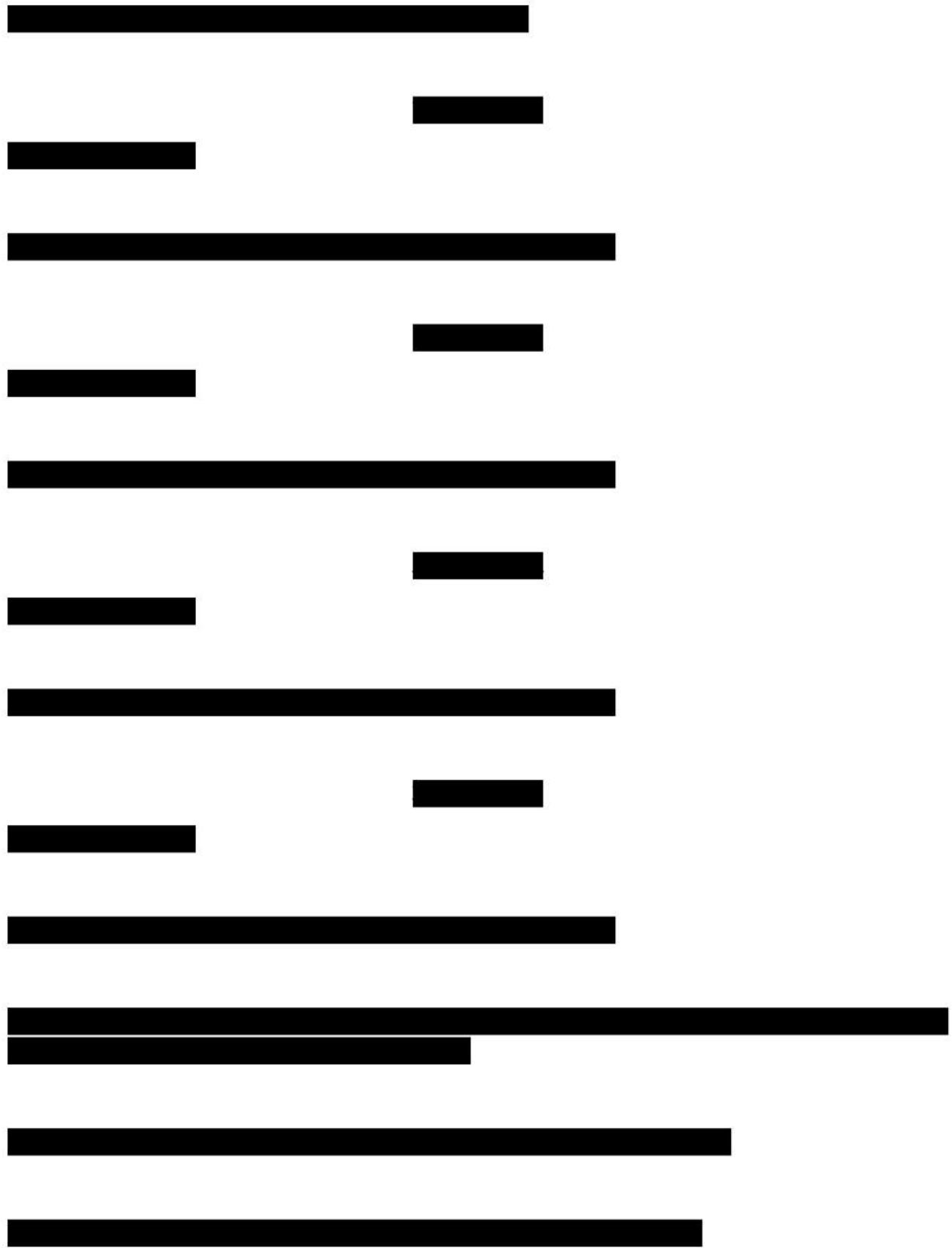
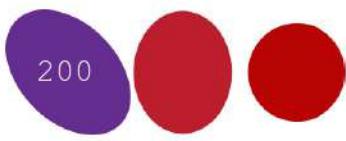


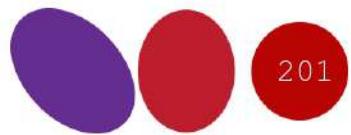
# ACT III



31. BIG BOUNCE







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1

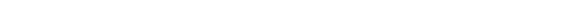
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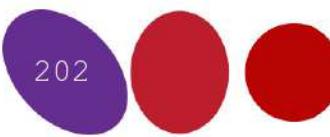
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 [REDACTED]

**ANSWER** The answer is 1000.





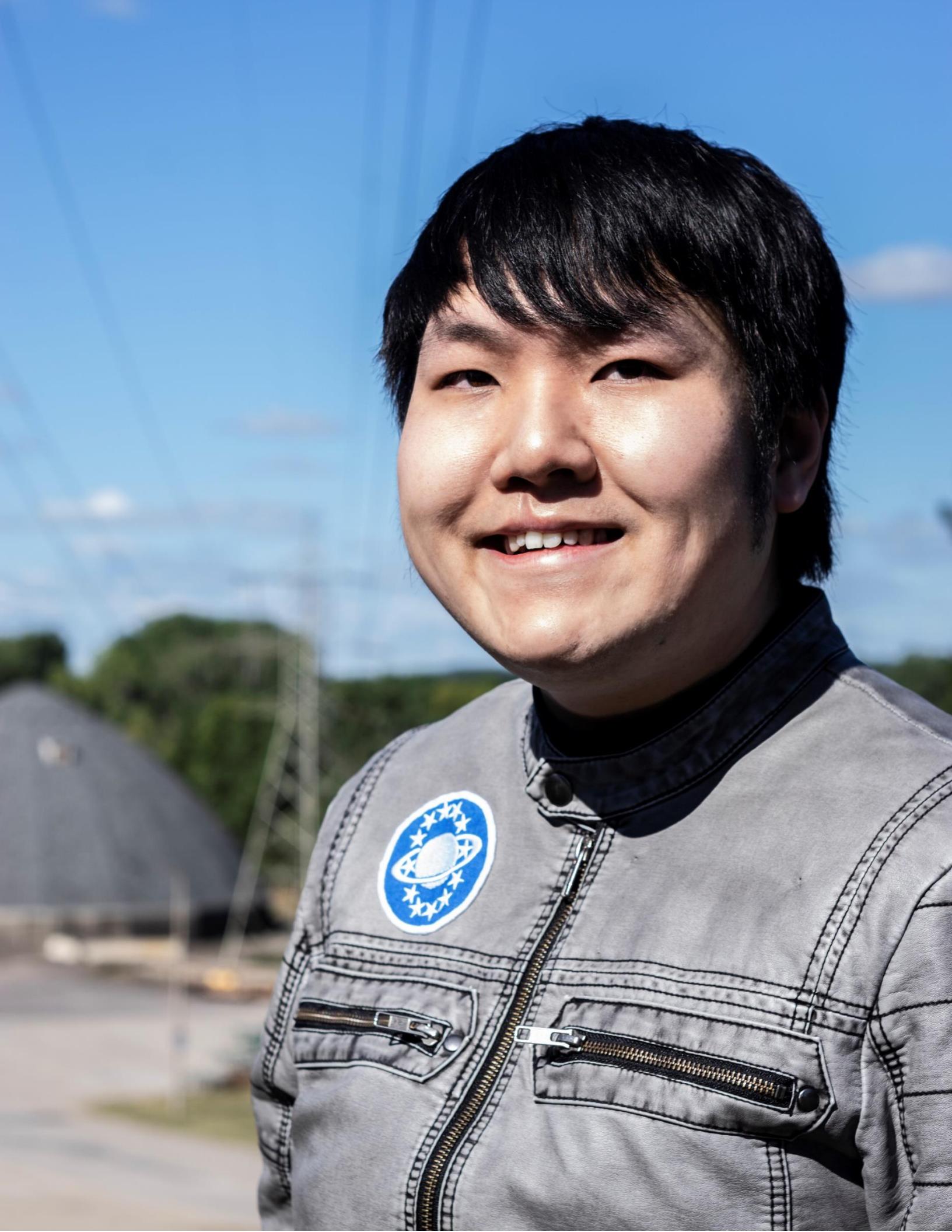
## DAVID QUANG PHAM (he★him)

David Quang Pham is a science dramaturg and musical writer from Wyoming, Michigan. He is the recipient of the 2020-2021 New Play Development and Dramaturgy Apprenticeship for Working Title Playwrights in Atlanta. He practices professional new development dramaturgy under their Dramaturgy Master Intensive and the International Dramaturgy Lab with fellow members of LMDA. He is musically mentored by Janelle Lawrence. A member of ΣΠΣ, ASCAP, and the Dramatists Guild, he attained an astrophysics degree with a minor in theatre at Michigan State University.

Since college, he has been working on a particle physics fable. TOUR revolves around Quark (the exchange student), Lepton (the doctoral advisor), Boson (the professor), and Atom (the aspiring scientist). This opera has these subatomic educators collide and compete with one another in the academic Accelerator. Under Working Title Playwrights, he is developing ELLIPSES. This astrophysics epic is about the Galaxy family and their quest to undo the Big Bang.

His astronomical and theatrical interests manifested as a child, with trips to operas and space camp. In middle and high school, he delved into music theory and played the modern sackbut. The nerdy persona remained, and the artistic talents dwelled into his collegiate years. As he was finishing his bachelor's thesis, his sister informed him that his high school calculus teacher had been annually sharing his musical. During his junior year of high school, he wrote MATHLAND for their winter project. He returned to musical writing on the side of thesis writing. Soon, he uncovered his niche: the world of physics being told through the human experience.

As an artistic scientist, he theorizes that science and art are not two sides of the same coin. Science and art make the coin. He spins this superposition.









<https://workingtitleplaywrights.com>



Sense-Ability Ensemble ([openspottheatre.com](http://openspottheatre.com))



The Cultural Workers Podcast  
([anchor.fm/minka-wiltz](https://anchor.fm/minka-wiltz))



Inside My Box Podcast ([anchor.fm/insidemybox](https://anchor.fm/insidemybox))



Working Title Playwrights New Play Development Apprenticeship features  
a concert and reading of a brand new musical about the Galaxy family



by DAVID QUANG PHAM  
Managed by ALEXIS MCKAY



DANIELA COBB



MINKA WILTZ



VALLEA E. WOODBURY



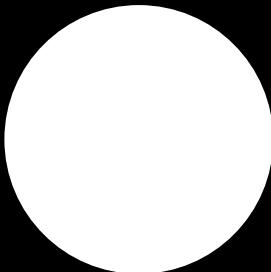
JASON-JAMAL LIGON



SKYE PASSMORE



ABBY HOLLAND



DANIEL SAKAMOTO-WENGEL



EVAN PHILLIPS

THURSDAY, JULY 15, 2021 · 7 PM ET | CONCERT: 6:30 PM ET  
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