QUANTUM WORLD

INSIDE THE ATOM

KASHI NANAVATI
FASHION INSTITUTE OF TECH.

SPATIAL EXPERIENCE DESIGN
SPRING 2025

DESIGN DEVELOPMENT
GRADUATING EXHIBITION

TABLE OF CONTENTS

PROJECT

QUANTUM WORLD

INSIDE THE ATOM

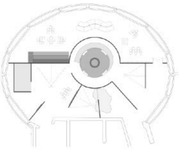
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

WHAT DOES QUANTUM MEAN?

The word quantum means *the smallest possible amount of something.* In science, it often refers to atoms, what atoms are made of, and small amounts of energy.

PROJECT

QUANTUM WORLD

INSIDE THE ATOM

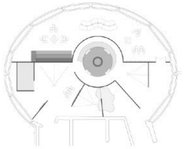
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

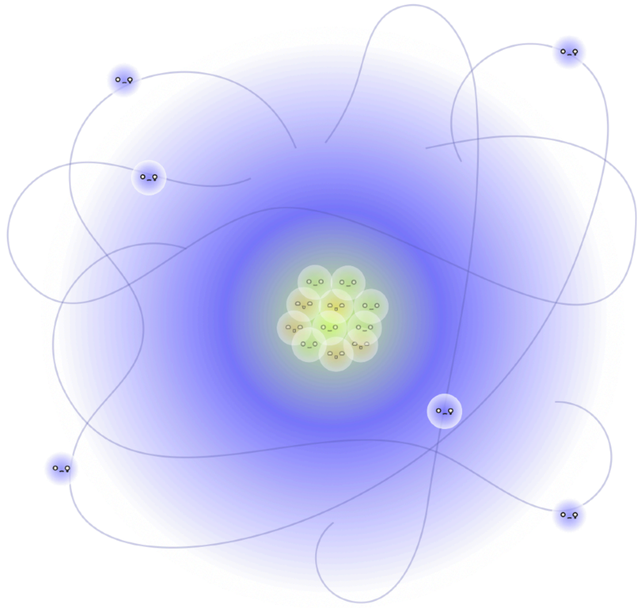
KEY PLAN



NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER



WHAT DO ATOMS LOOK LIKE?

Atoms are made of particles. Examples of particles are protons, neutrons, and electrons. We can picture particles as blurry and random, as they exist in terms of chance and probability.

PROJECT

QUANTUM WORLD

INSIDE THE ATOM

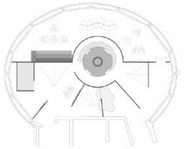
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

The world inside of atoms is strange, unexpected and astonishing. At the smallest scale, everything is probabilistic.

"The universe around you is inescapably probabilistic. When we measure things, we measure results with probabilities. And that's quantum mechanics."

Stated in an MIT classroom during a lecture on quantum mechanics by Allan Adams, Quantum Physicist and MIT Professor

PROJECT

QUANTUM WORLD

INSIDE THE ATOM

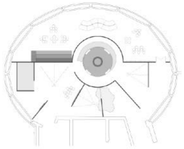
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX. 1.00

EXECUTIVE SUMMARY

THESIS STATEMENT

Quantum physics is a field that exists primarily in mathematics, principles, and theories. It is rarely interpreted in a visual or physical sense, making it often difficult for most people to conceptualize. Many people are not introduced to the concept of quantum physics until much later in their education, if at all.

By interpreting the quantum world with a creative approach, exhibition designers can teach visitors a new way to look at the world around them, expose audiences to new technology, and provide educational tools for teachers and educators.

PROJECT

QUANTUM WORLD

INSIDE THE ATOM

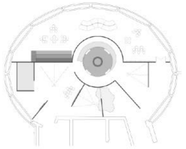
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.1.01

BIG IDEA

Much of the quantum world is unknown, but there is a lot we have learned and created in the field of quantum physics. This exhibition provides universal education on emerging scientific knowledge and technology relating to atoms and quanta.

PROJECT

QUANTUM WORLD

INSIDE THE ATOM

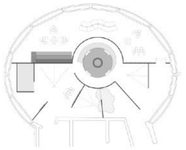
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.1.02

INTERPRETIVE APPROACH

Visitors learn about the quantum world through creative interactives and educational experiences. Quantum subjects are presented within the context of everyday life, drawing parallels between the visitors' lived experiences and scientific knowledge. This exhibition aims to inspire optimism and wonder, and to redefine people's feelings and thoughts towards quantum physics.

PROJECT

QUANTUM WORLD

INSIDE THE ATOM

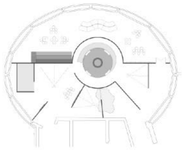
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.1.03

THE NEW YORK HALL OF SCIENCE

The New York Hall of Science is dedicated to science education through cutting-edge exhibitions and workshops. They work with a range of communities and create multi-sensory, innovative exhibitions.

111th St., Queens, New York

NYSCI "is where exhibits inspire visitors, where young scientists get their start, where community members come to learn, and where critical STEM education research occurs."

Sponsorship This exhibition would be sponsored by *CERN*, an organization that operates the largest particle physics laboratory in the world. They have funded quantum physics exhibitions in the past, and *CERN's* particle accelerator is a key topic of the exhibition.

PROJECT

QUANTUM WORLD
INSIDE THE ATOM

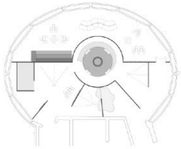
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.1.04

TARGET AUDIENCES

PRIMARY AUDIENCE:
YOUNG STUDENTS (AROUND 12 TO 17 YEARS OLD)

SECONDARY AUDIENCE:
EDUCATORS, ESPECIALLY PUBLIC SCHOOL TEACHERS

TERTIARY AUDIENCE:
ADULTS WHO ARE CURIOUS ABOUT SCIENCE AND TECHNOLOGY

PROJECT

QUANTUM WORLD
INSIDE THE ATOM

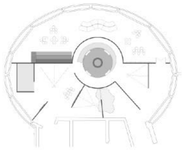
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.1.05

EXHIBITION GOALS

Cognitive: Learn about what atoms are made of, basic principles of quantum mechanics (Superposition, Uncertainty, Wave-Particle Duality), fundamental theories, and quantum technology.

Affective: Awe-inspiring and expansive; feel connected to all matter at a fundamental level and optimistic towards our future.

Personal Relevance: Contextualize quantum physics in terms of everyday life and connect the subject to other topics such as art and religion. Consider how quantum technology will affect our lives.

PROJECT

QUANTUM WORLD

INSIDE THE ATOM

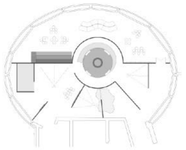
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



NOTE

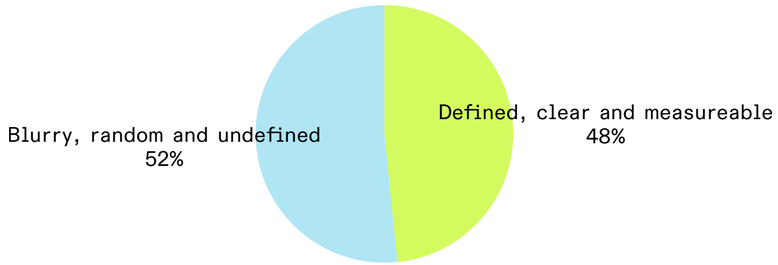
DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

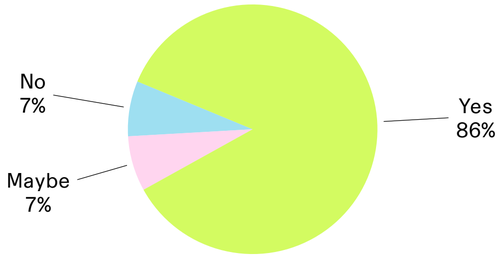
EX.1.06

SURVEY SYNTHESIS

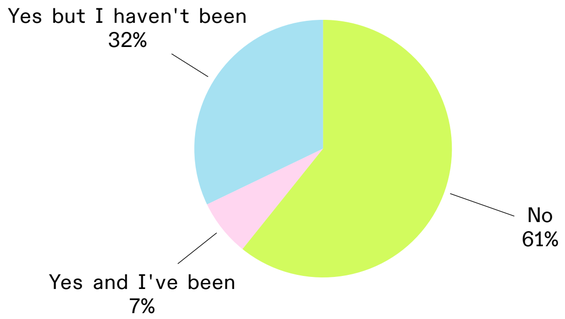
How to you picture matter?



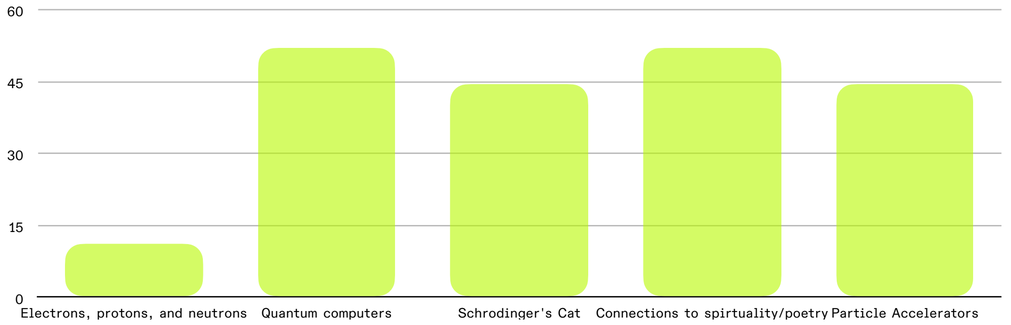
Did you learn about atoms in elementary/middle school?



Have you heard of the New York Hall of Science?



Which of these would you be interested in learning more about?



PROJECT

QUANTUM WORLD
INSIDE THE ATOM

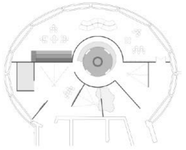
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



NOTE

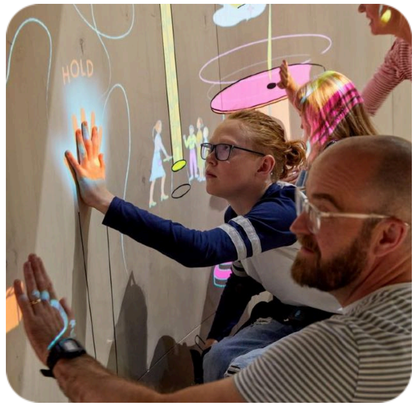
DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

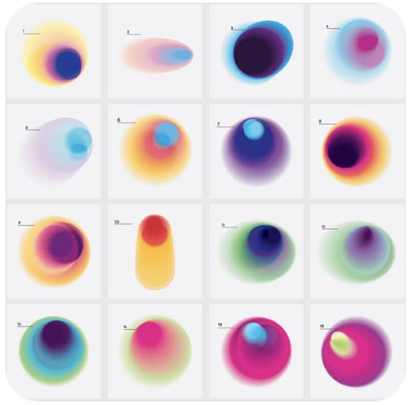
EX.1.07

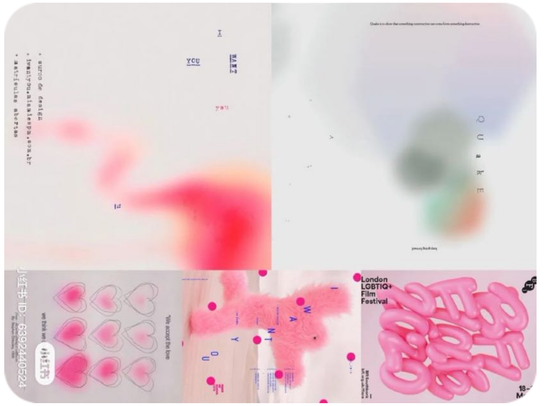
MOODBOARD

Spatial



Graphic





PROJECT

QUANTUM WORLD
INSIDE THE ATOM

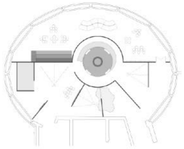
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



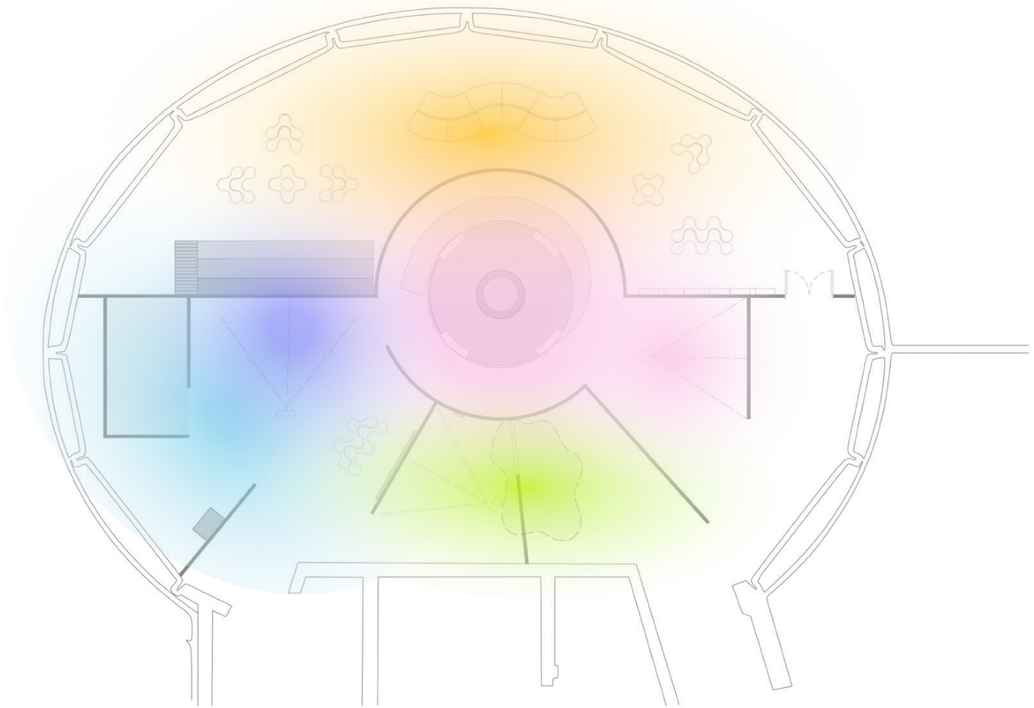
NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.1.08

CONCEPT DIAGRAM



1. **INTRO**: Introduce atoms, particles, and probability through interactive graphics.

2. **SCHRÖDINGER'S CAT**: Show visitors Schrödinger's Cat experiment recreated through an infinity room with graphic callouts.

3. **WAVE-PARTICLE DUALITY**: Learn about a popular experiment on waves and particles. Engage in an interactive projection experience.

4. **QUANTUM TECHNOLOGY**: Explore particle accelerators and quantum computers through scale models and explanatory labels of what the technology does.

5. **EDUCATION CENTER**: A space dedicated to education through workshops, guest lectures, and teaching sessions.

PROJECT

QUANTUM WORLD

INSIDE THE ATOM

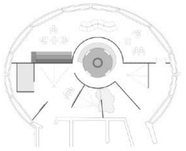
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



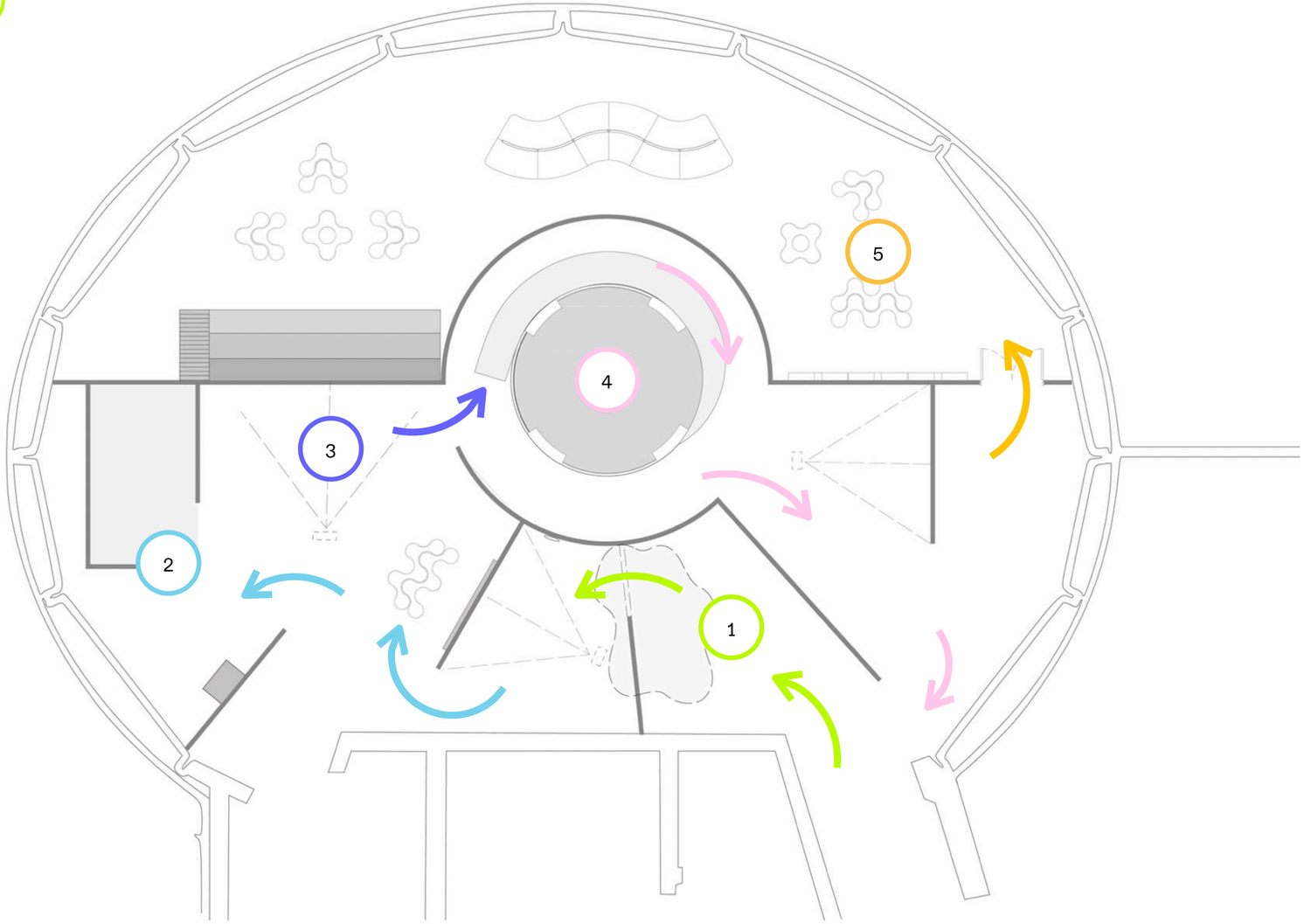
NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.1.09

EXHIBITION FLOW



Visitor Journey

PROJECT

QUANTUM WORLD
INSIDE THE ATOM

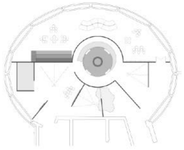
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



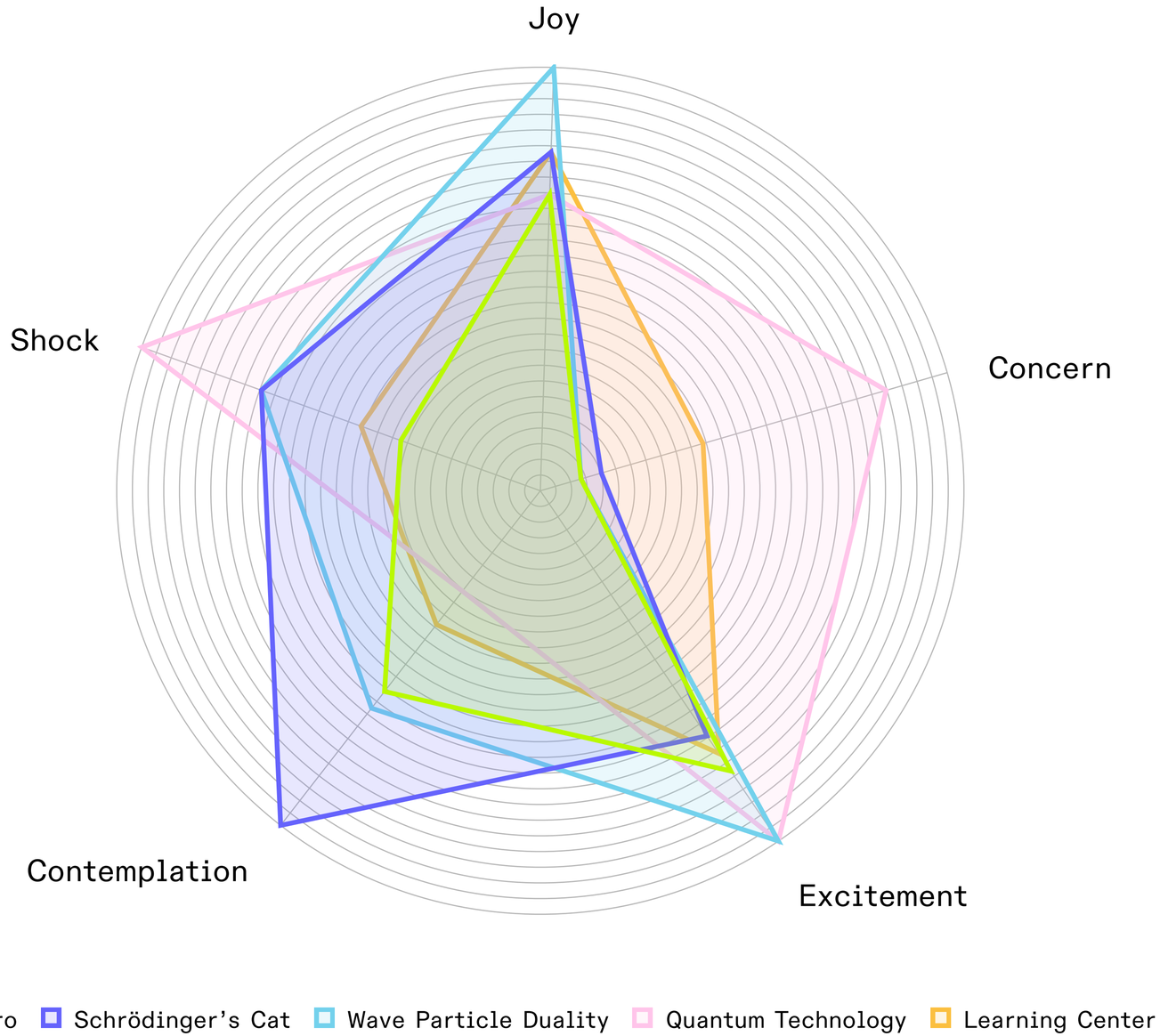
NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.1.10

EMOTIONAL MAP



PROJECT

QUANTUM WORLD
INSIDE THE ATOM

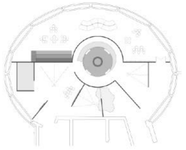
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



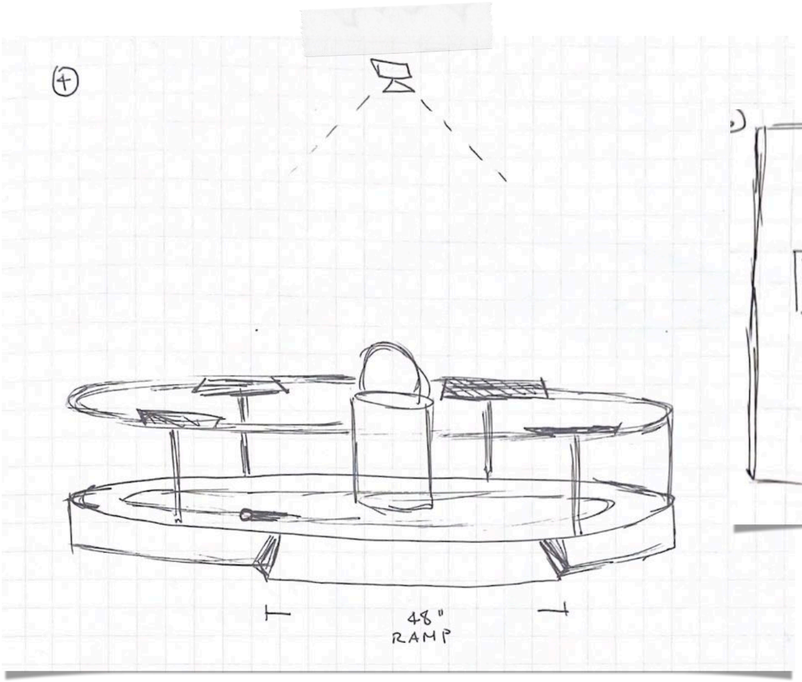
NOTE

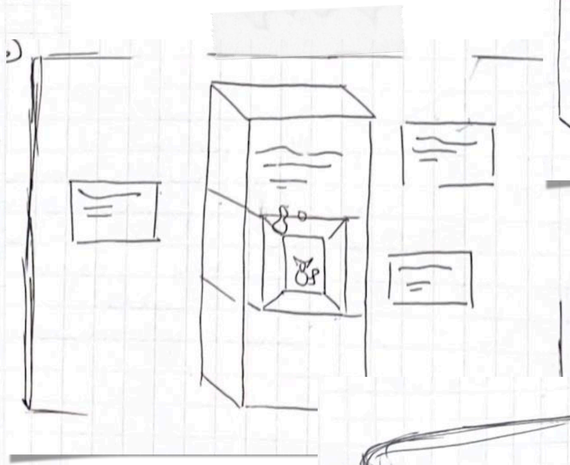
DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

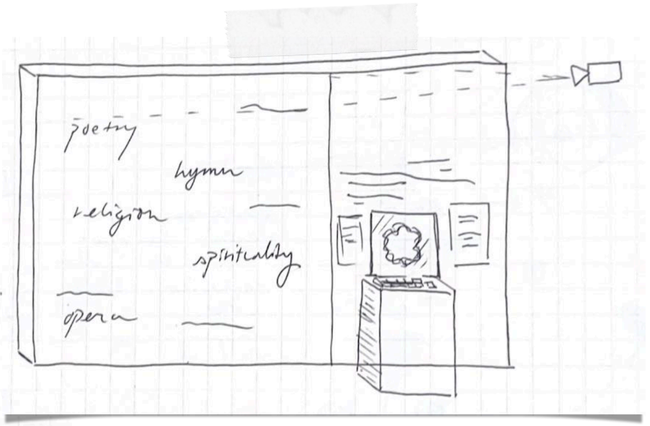
DRAWING NUMBER

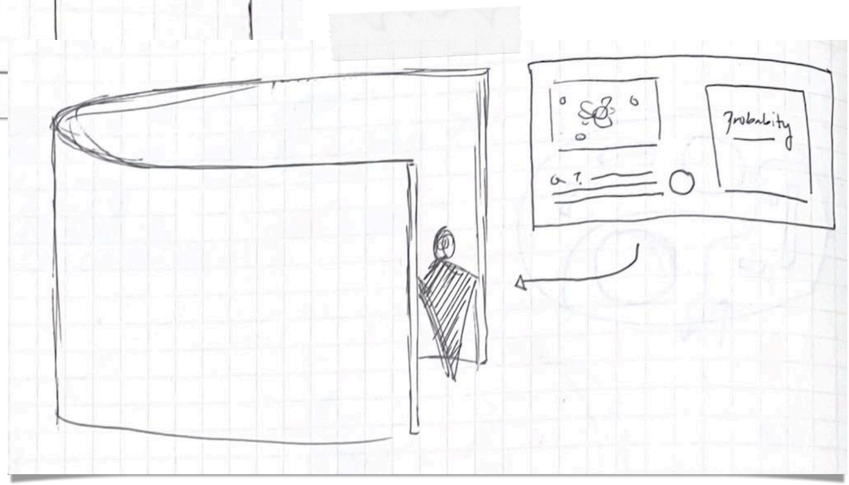
EX.1.11

SKETCHES









PROJECT

QUANTUM WORLD
INSIDE THE ATOM

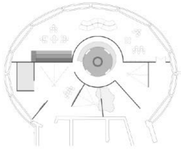
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



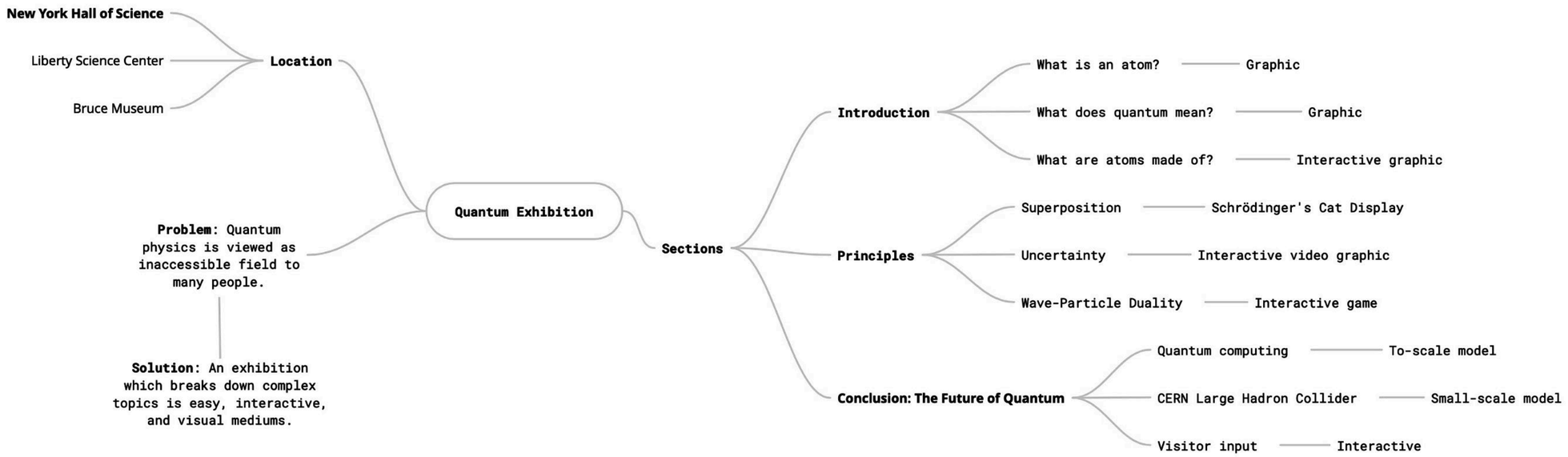
NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.1.12

MIND MAP



PROJECT

QUANTUM WORLD

INSIDE THE ATOM

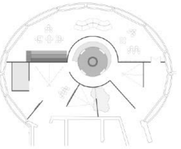
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

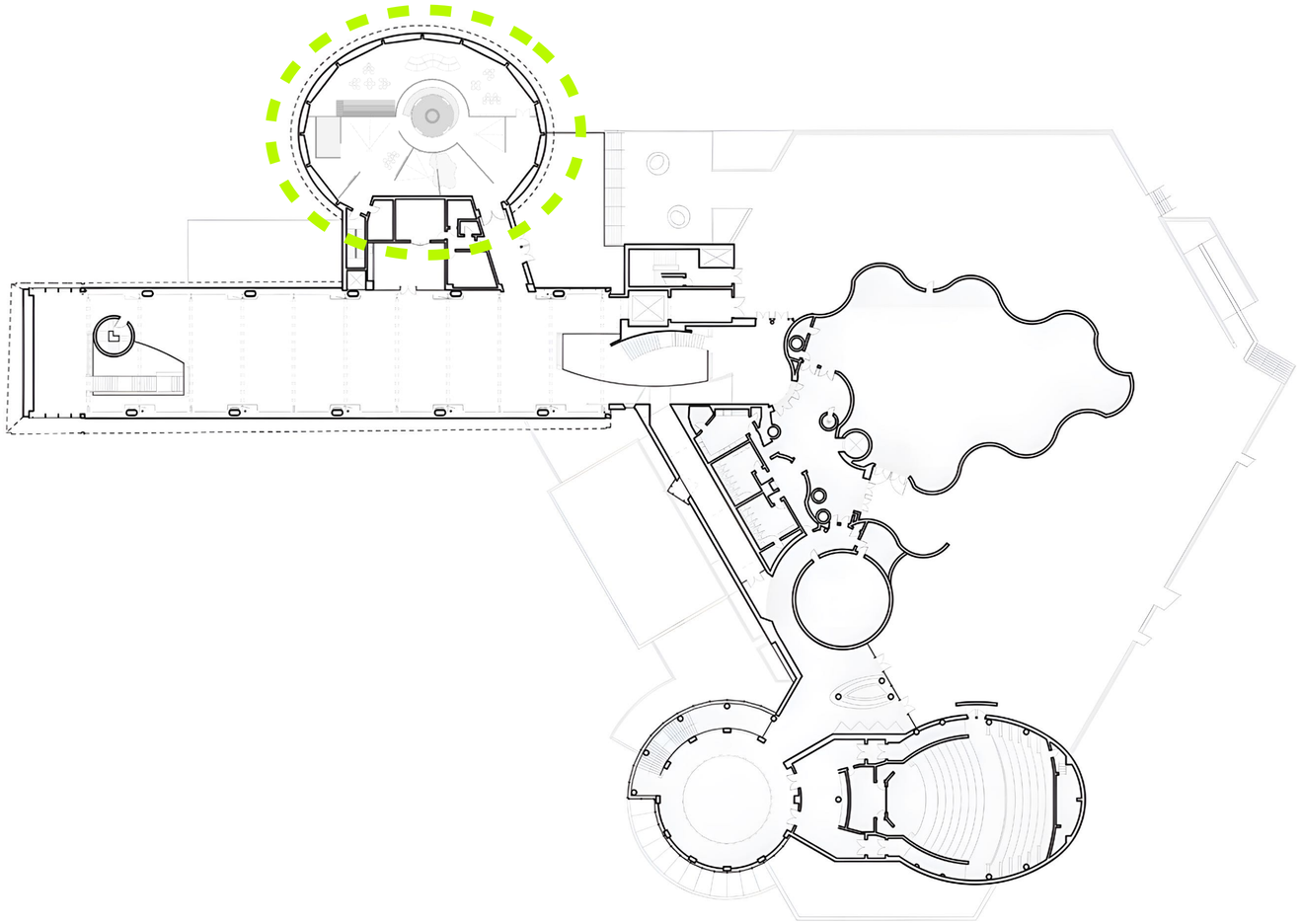
DRAWING NUMBER

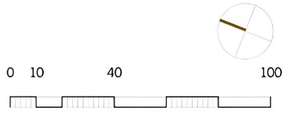
EX.1.13

EX. 2.00

TECHNICAL DRAWINGS

EXHIBITION AREA





1 **LOCATION PLAN**

NOT TO SCALE

PROJECT

QUANTUM WORLD

INSIDE THE ATOM

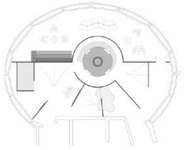
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN

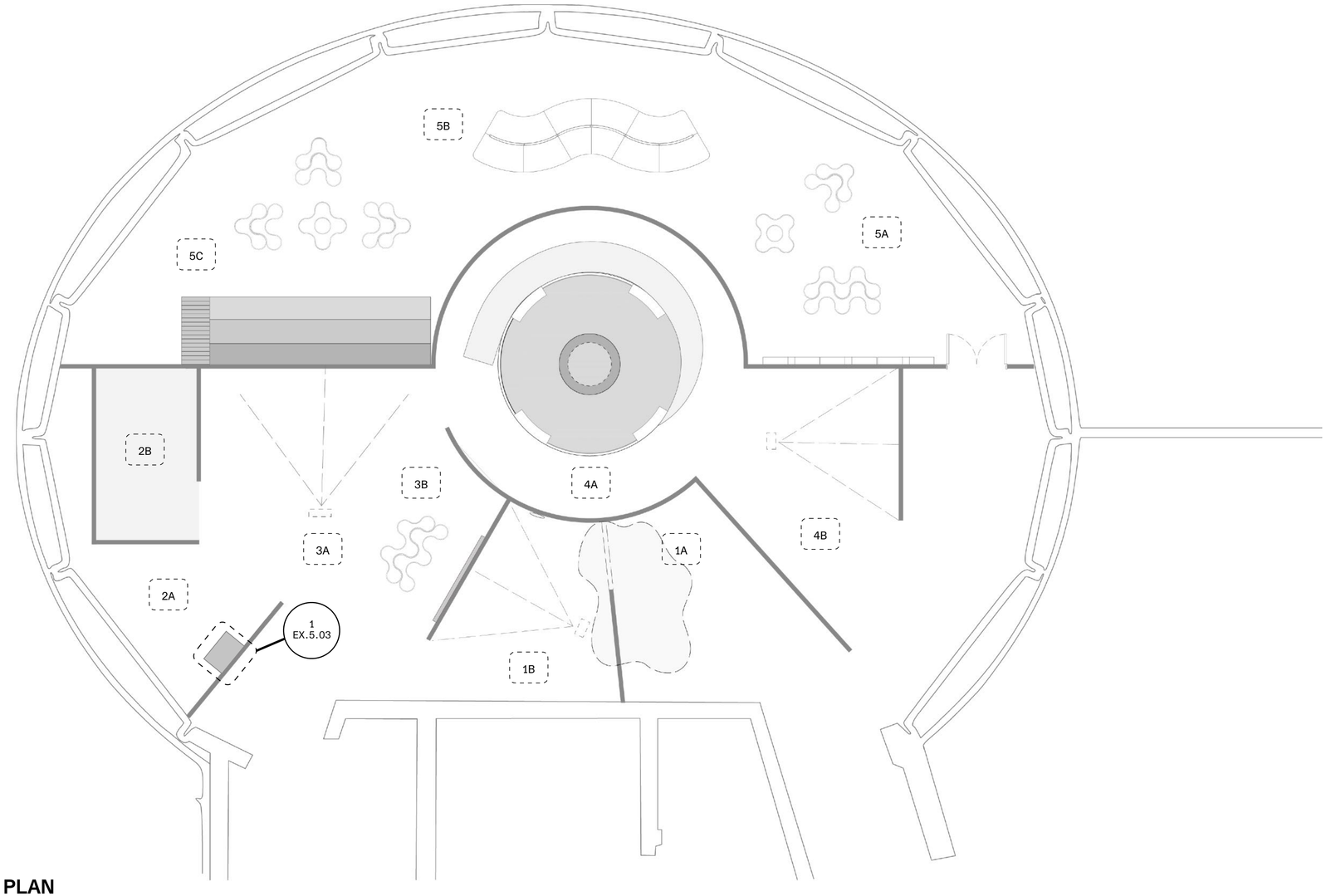


NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.2.01



1

EXHIBITON PLAN

SCALE 1/8” - 1’0”

PROJECT

QUANTUM WORLD

INSIDE THE ATOM

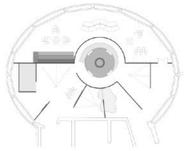
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



NOTE

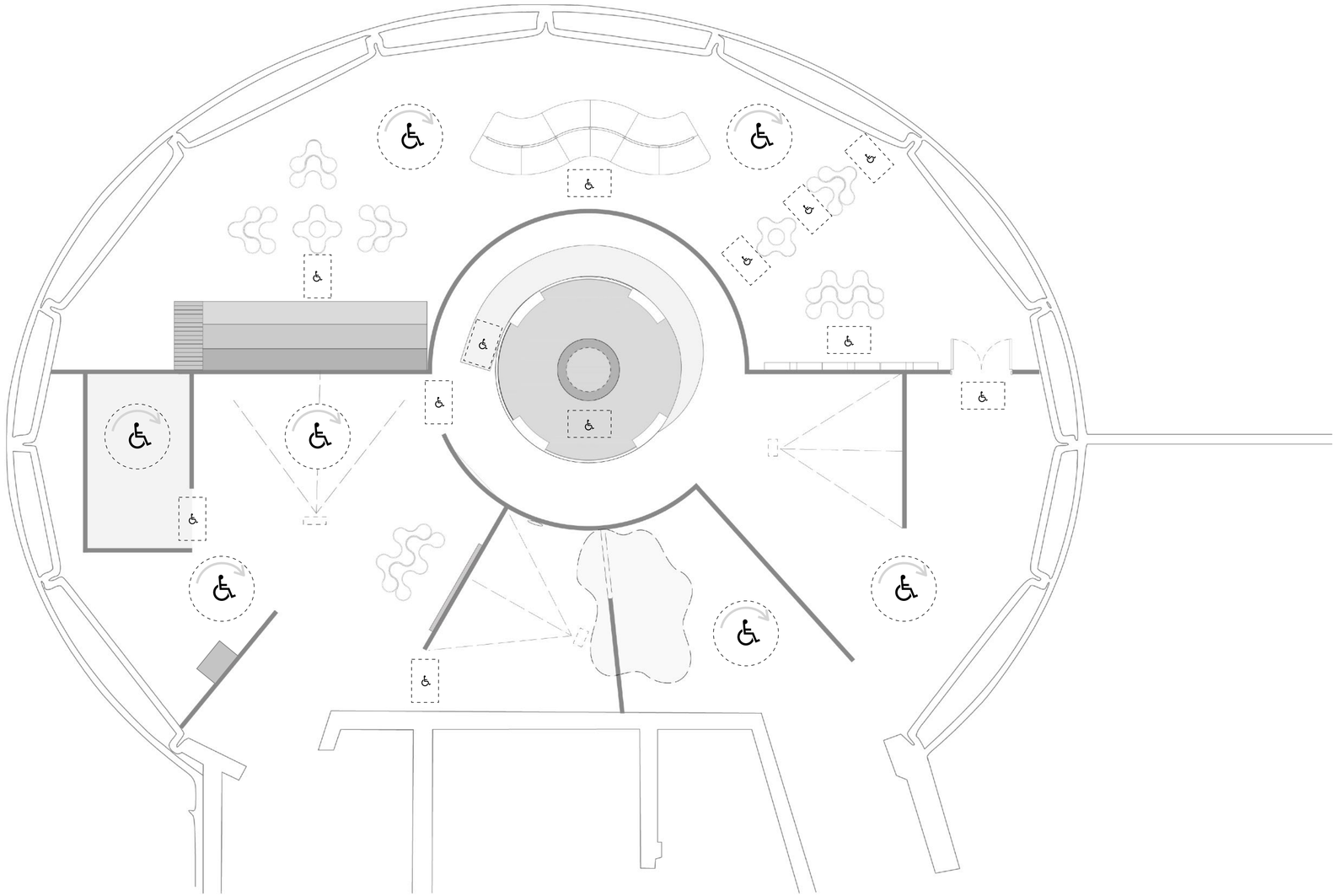
DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.2.02

30” X 48” STANDARD
ADA ACCESSIBILITY

60” DIAMETER ADA
ACCESSIBILITY FOR
360° SWIVEL



1

ADA PLAN

SCALE 1/8” - 1’0”

PROJECT

QUANTUM WORLD

INSIDE THE ATOM

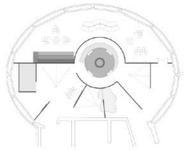
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

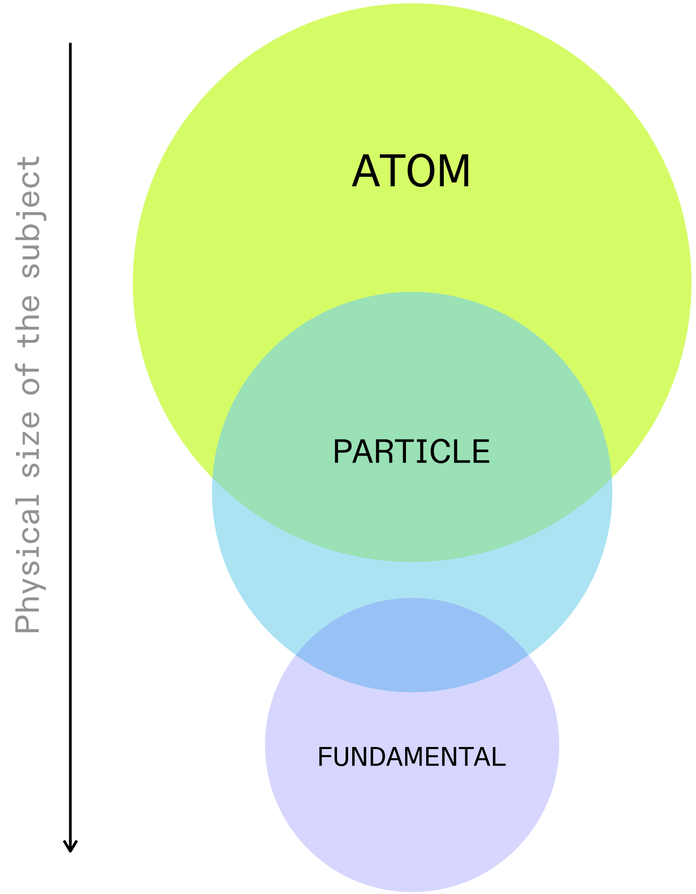
DRAWING NUMBER

EX.2.03

EX. 3.00

EXPERIENCE OVERVIEW

EXPERIENCE OVERVIEW



For the first three areas, each section goes further into the atom, and looks at even smaller topics.

INTRO:
We start with introducing the **atom**, and the idea that inside of the atom are particles.

SCHRÖDINGER'S CAT:
We look at **particles**, and introduce visitors to the idea of smaller things inside of atoms.

WAVE-PARTICLE DUALITY:
We look inside of particles, at the most **fundamental** building blocks of matter.

PROJECT

QUANTUM WORLD
INSIDE THE ATOM

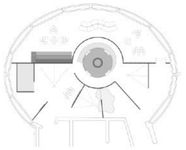
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



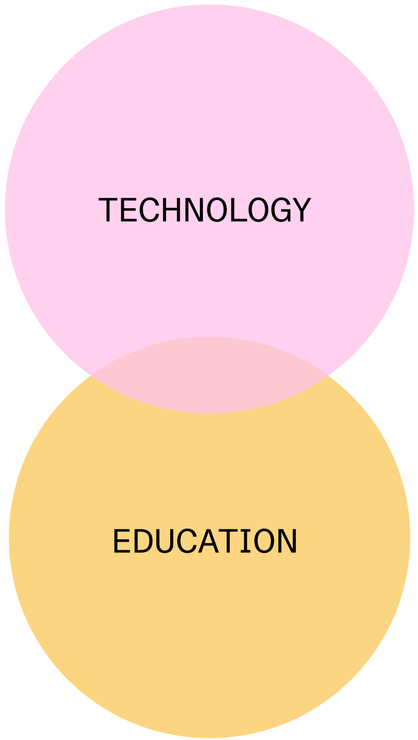
NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.3.01

EXPERIENCE OVERVIEW



The final two sections apply what the visitors have learned.

QUANTUM TECHNOLOGY:

Using knowledge of atoms, particles, and fundamental theories, we are able to make incredible new technology.

EDUCATION CENTER:

For visitors who want to learn more, they can attend workshops, meet with educators, and check out books in the education center.

PROJECT

QUANTUM WORLD
INSIDE THE ATOM

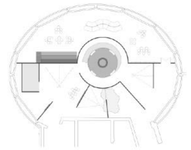
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



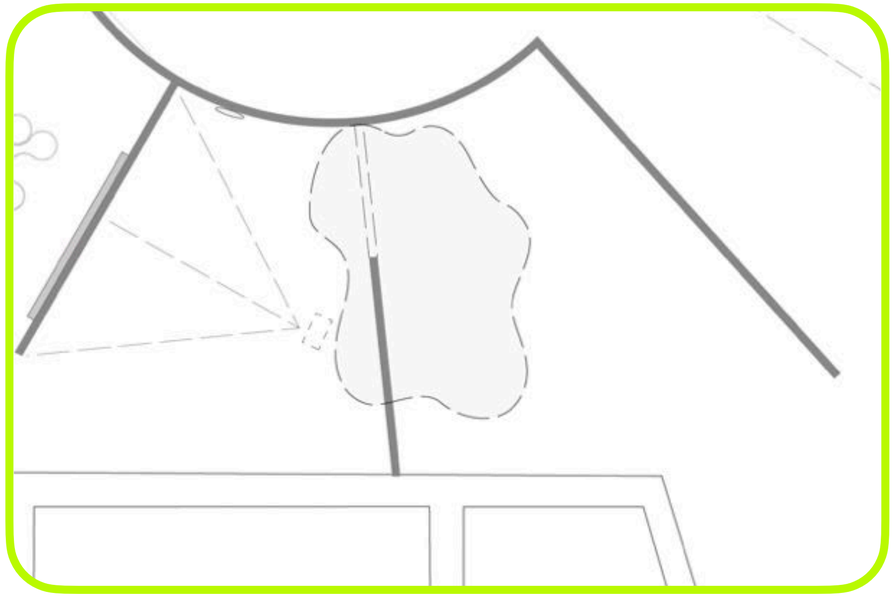
NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.3.02

01. INTRO



CALLOUT IN PLAN

Soundscape: Bubbling liquid to accompany the graphic of matter.

ENTER THE ATOM: ENTRY ARCH

Archway entrance with exhibition title and overview. Introduce the idea that with each section, visitors are traveling further into the atom, going smaller and smaller.

WHAT IS QUANTUM PHYSICS? (INTERACTIVE INFOGRAPHIC)

Overview of the field. LED Screen with interactive buttons triggering movement of particles in the graphic.

HOW SMALL ARE ATOMS? (INTERACTIVE)

Visitors place their hand under a magnifying glass. The label deck explains how many atoms and particles are in one singular skin pore.

ART INSTALLATION

Overhead art piece commissioned by Rana Begum, a spatial artist. **Highlighting marginalized voices:** Rana Begum is South Asian woman who creates large-scale art installations for each space.

PROJECT

QUANTUM WORLD

INSIDE THE ATOM

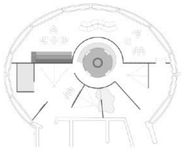
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



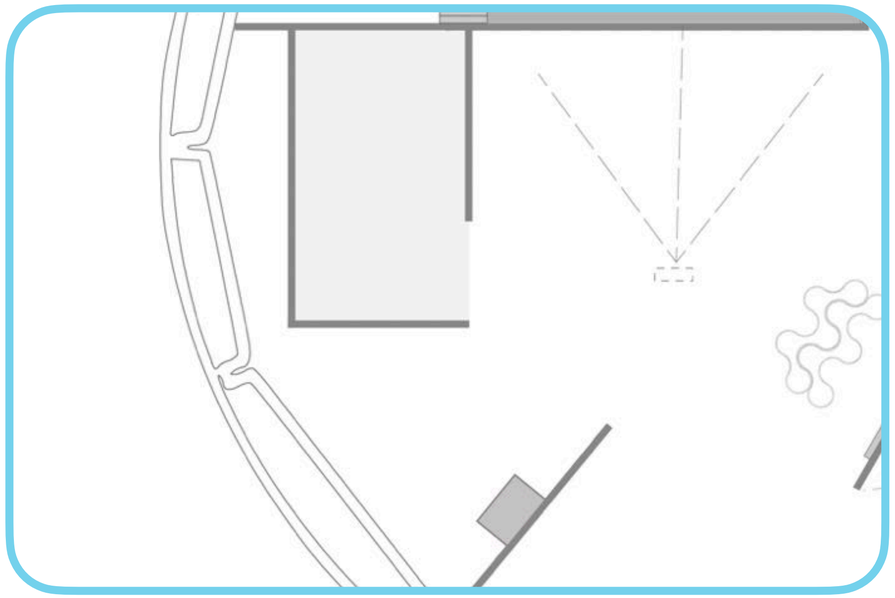
NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.3.03

02. SCHRODINGER'S CAT



CALLOUT IN PLAN

Soundscape: Cat meowing when approaching the display.

WHAT IS SCHRODINGER'S CAT EXPERIMENT? (GRAPHIC INTRODUCTION)

Overview of Schrödinger's Cat experiment.

EXPERIENCE SUPERPOSITION

Small enclosed section with mirror treatment. Infinity box with stylized grass/park and cat model inside. Used to demonstrate the indefinite states of Schrödinger's cat.

SCHRODINGER'S CAT IN A BOX

Physical 3D display of Schrödinger's Cat Experiment with graphic callouts.

PROJECT

QUANTUM WORLD

INSIDE THE ATOM

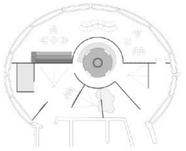
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



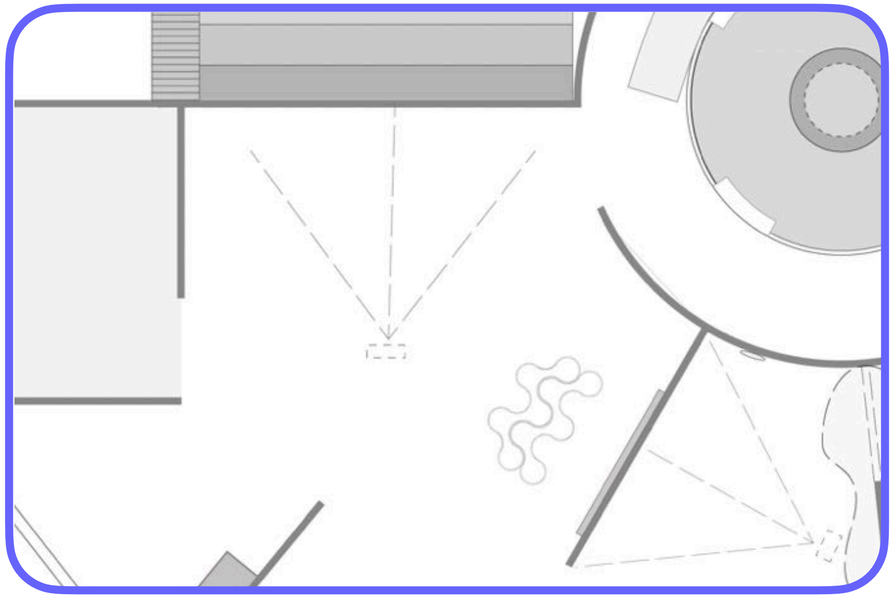
NOTE

DRAWINGS FOR DESIGN USE ONLY. NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.3.04

03. STRING THEORY



CALLOUT IN PLAN

WHAT IS STRING THEORYA? (INFOGRAPHIC)

Overview of String Theory and what particles are made of.

INTERFERENCE PATTERN EXPERIENCE (INTERACTIVE)

Through a camera (heat map) and projection, visitors can see their body shape transform into an interference pattern.

ART INSTALLTION

Overhead art piece commissioned by Rana Begum, a spatial artist.

PROJECT

QUANTUM WORLD

INSIDE THE ATOM

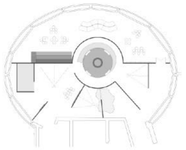
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



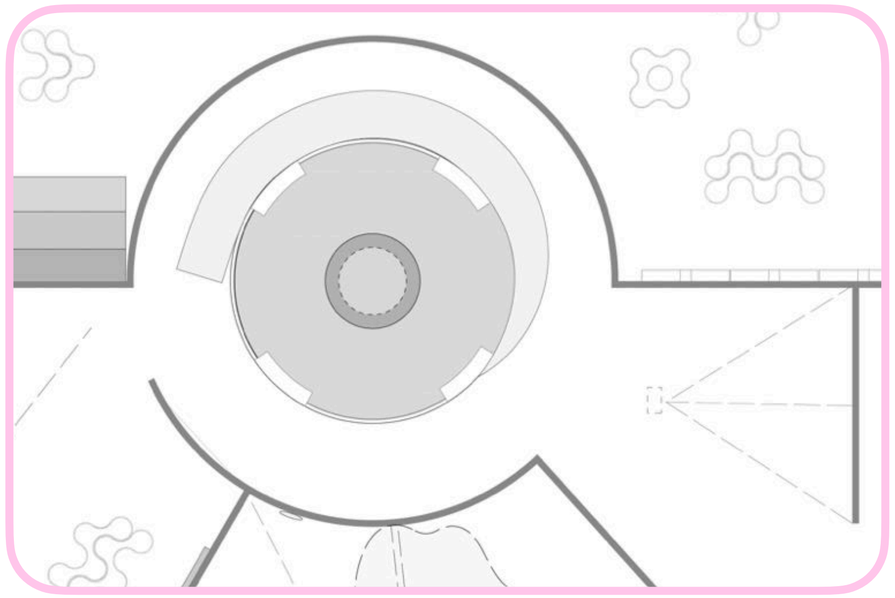
NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.3.05

04. QUANTUM TECHNOLOGY



CALLOUT IN PLAN

THE GOLDEN COMPUTER (MODEL)

To-scale model of a quantum computer.

PARTICLE ACCELERATORS (RECESSED ADDRESSABLE LED LIGHTING)

Recessed light moves in rapid circles under visitors feet to mimic photons in particle accelerators. In-set frosted acrylic diffuses light.

WHERE IS IT ALL HAPPENING?

Informational graphics/videos on Quantum Computing labs and CERN. Label decks and wall graphics.

RAMP (ADA STANDARDS)

Ramp for 3” raised platform (raised to insert recessed floor lighting).

PROJECT

QUANTUM WORLD

INSIDE THE ATOM

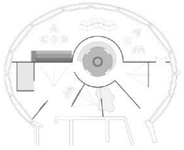
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



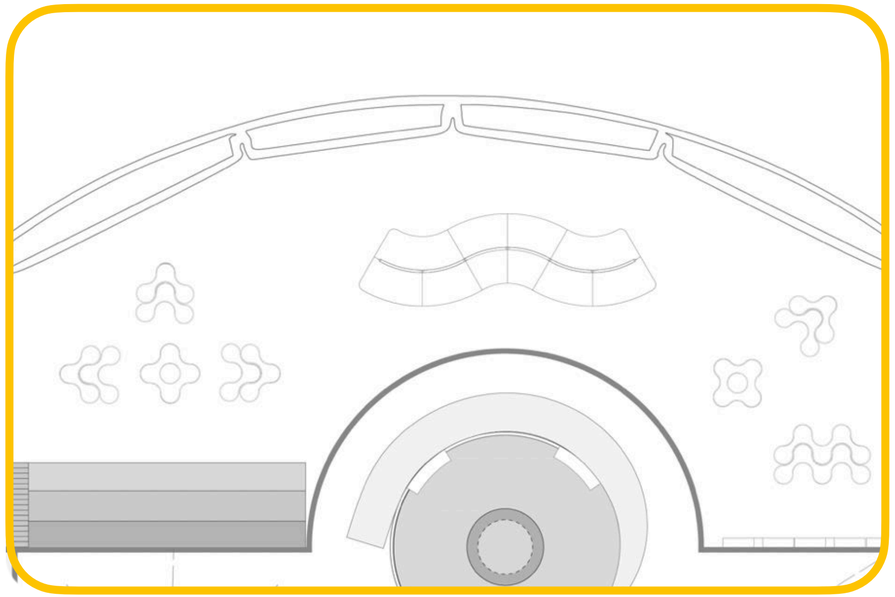
NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.3.06

05. EDUCATION CENTER



CALLOUT IN PLAN

LIBRARY

Books on physics, science, and technology available for public rental.

WORKSHOPS

Teaching workshops for educators and science teachers.

COMMUNITY BUILDING

Students, teachers, and anyone with an interest in learning more can interact, talk, and learn from each other in community spaces.

PROJECT

QUANTUM WORLD
INSIDE THE ATOM

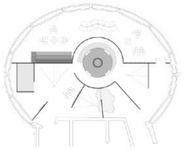
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.3.07

EX. 4.00

EXPERIENCE WALKTHROUGH

DRAWING NUMBER EX 4.01

DRAWING NUMBER EX 4.02

DRAWING NUMBER EX 3.02

DRAWING NUMBER EX 4.03

DRAWING NUMBER EX 4.04

DRAWING NUMBER EX 4.05

EX. 5.00

GRAPHICS

GRAPHIC COMMUNICATION

The purpose of these graphics is to explain complex subjects in easily digestible language, with fun visuals. It is important for these graphics to be **bilingual**, in english and spanish, to make the information more accessible.

PROJECT

QUANTUM WORLD

INSIDE THE ATOM

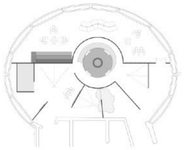
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.5.01

GRAPHIC IDENTITY

PSYGEN (TITLE)

SUBTITLE (DIATYPE SEMI-MONO ALL CAPS)

body (Diatype Semi-Mono)

Color Palette

Primary

Secondary

Graphic Assets

PROJECT

QUANTUM WORLD
INSIDE THE ATOM

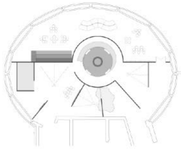
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.5.02

LOGO

QUANTUM WORLD

INSIDE THE ATOM

PROJECT

QUANTUM WORLD
INSIDE THE ATOM

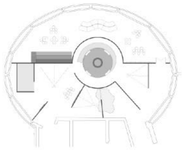
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



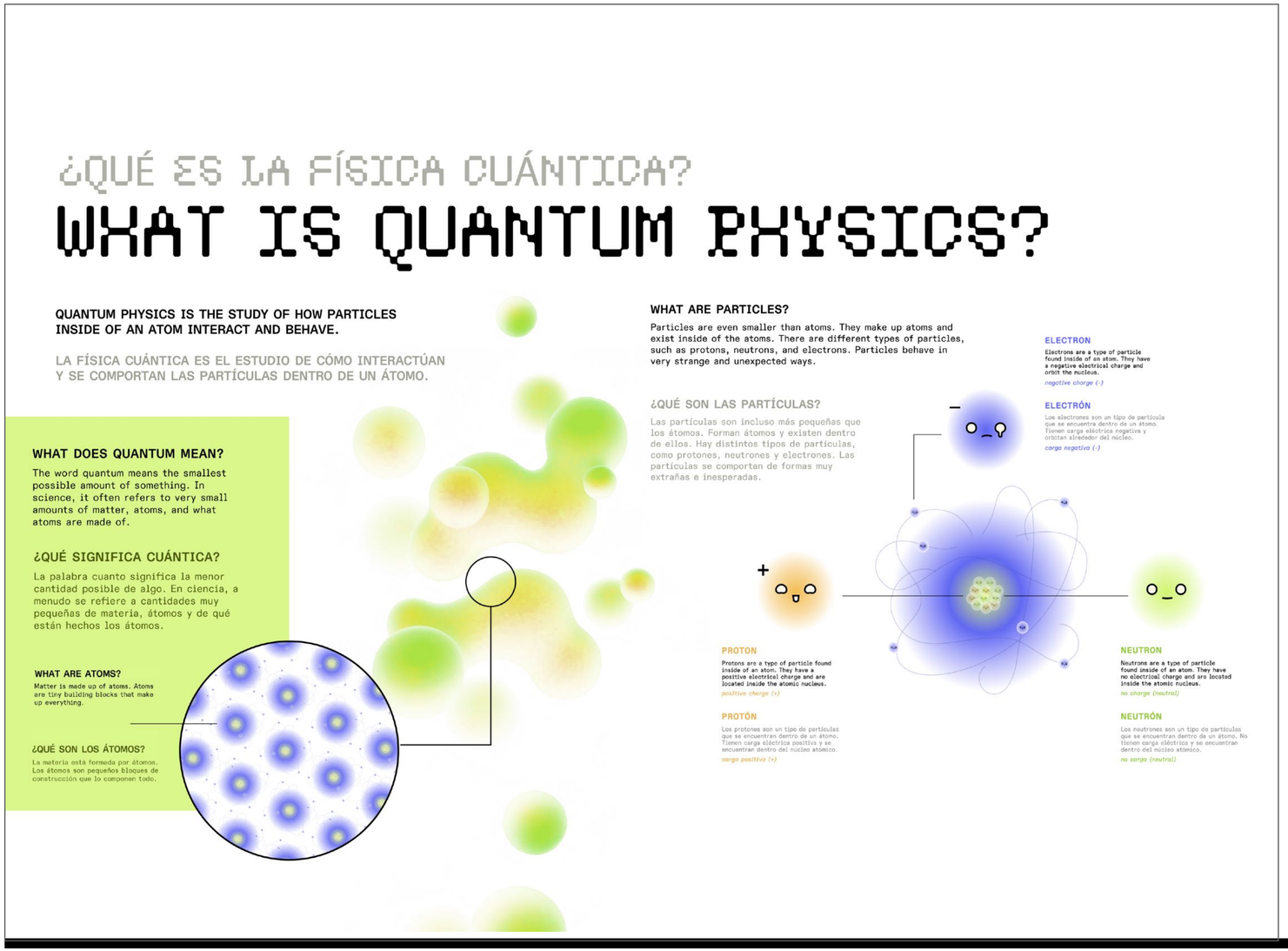
NOTE

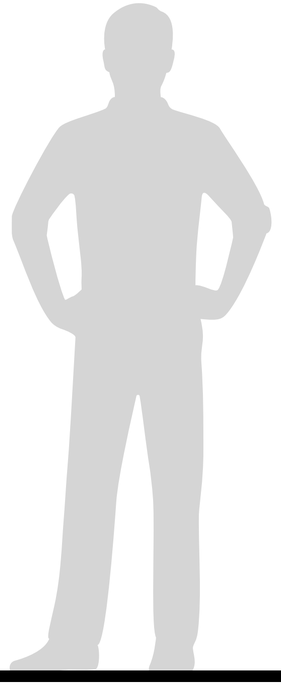
DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.5.03

Graphic Size: 15’x 11’





1

INTRO - SAMPLE WALL INFOGRAPHIC

NOT TO SCALE

PROJECT

QUANTUM WORLD

INSIDE THE ATOM

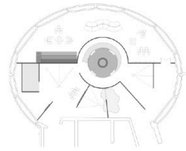
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.5.04

Graphic Size: 11’6”x 11’

INTERACTIVO
INTERACTIVE

What from your life can you relate to when you picture String Theory? Think about music, art, spirituality, rhythm, anything that you can think of!

ENTER IT INTO THE COMPUTER TO SEE YOUR WORDS PROJECTED.

¿Qué aspecto de tu vida te resulta familiar cuando imaginas la teoría de cuerdas? Piensa en música, arte, espiritualidad, ritmo, ¡cualquier cosa que se te ocurra!

INTRODÚCELO EN LA COMPUTADORA PARA VER TUS PALABRAS PROYECTADAS.

TEORIA DE CUERDAS
STRING THEORY

HOW SMALL CAN WE GO?

Inside of atoms are particles such as protons, neutrons, and electrons. But what happens when we look inside of particles? Quantum physicists around the world are trying to solve this question.

¿QUÉ TAN PEQUEÑOS PODEMOS LLEGAR A SER?

Dentro de los átomos hay partículas como protones, neutrones y electrones. Pero, ¿qué sucede cuando miramos el interior de las partículas? Los físicos cuánticos de todo el mundo están intentando resolver esta cuestión.

WHAT IS STRING THEORY?

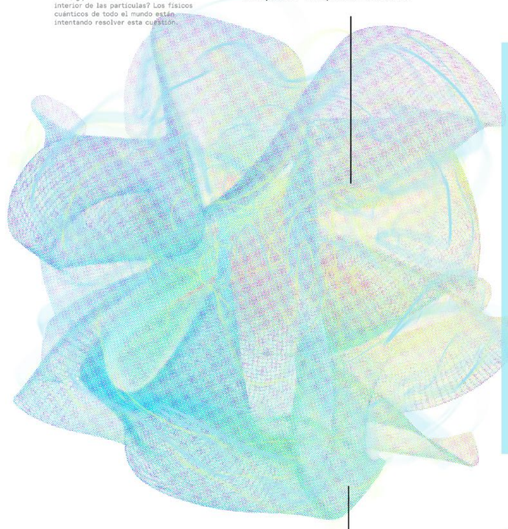
Several theories exist about what particles are made of, one of those theories is called String Theory. It theorizes that particles are made of **tiny vibrating strings of energy.**

These strings are unimaginably small and behave weirdly. If this sounds strange, you're not alone. Many physicists are often surprised at how unexpected the quantum world is.

¿QUÉ ES LA TEORÍA DE CUERDAS?

Existen varias teorías sobre de qué están hechas las partículas, una de esas teorías se llama teoría de cuerdas. Teoriza que **las partículas están hechas de pequeñas cuerdas vibrantes de energía.**

Estas cuerdas son inimaginablemente pequeñas y se comportan de manera extraña. Si esto le suena extraño, no está solo. Muchos físicos se sorprenden a menudo de lo inesperado que es el mundo cuántico.



OVERLAP OF THE ARTS AND SCIENCE

Many people have noticed parallels between String Theory are popular themes in music and art. Music and rhythm focus on the idea of a universal hymn or resonance. Fiber arts use small threads to create complex artworks. String theory is all around us.

What similarities between String Theory and your life can you think of? Enter them into the computer and see your results projected!

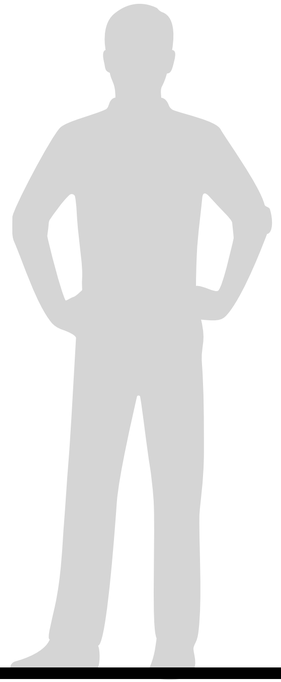
EL ENLACE DE LAS ARTES Y LAS CIENCIAS

Mucha gente ha notado paralelismos entre la idea de la teoría de cuerdas y temas populares de la música y el arte. La poesía y muchas oraciones religiosas se centran en la idea de un himno o resonancia universal. Las artes con fibras utilizan pequeños hilos para crear obras de arte complejas.

¿Qué similitudes piensas entre la teoría de cuerdas y tu vida? ¡Introdúcelos en la computadora y verás tus resultados proyectados!

o_o

LOOK INSIDE THE PARTICLE!
¡MIRA DENTRO DE LA PARTÍCULA!



1 **CONNECTIONS INFOGRAPHIC**

NOT TO SCALE

PROJECT

QUANTUM WORLD
INSIDE THE ATOM

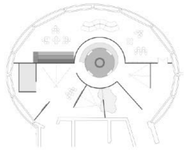
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

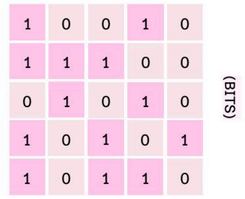
EX.5.05

QUANTUM COMPUTERS

COMPUTADORAS CUANTICAS

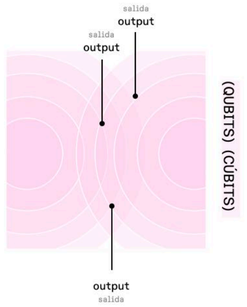
A quantum computer is a new kind of computer. It can think in many different ways at the same time. Instead of just using 0s and 1s (bits) like normal computers, it uses qubits, which can be both 0 and 1 at the same time because of a quantum property called superposition. Qubits utilize the abilities of quantum particles to solve new types of problems, such as cracking codes or solving hard problems very quickly.

Una computadora cuántica es un nuevo tipo de computadora. Puede pensar de muchas maneras diferentes simultáneamente. En lugar de usar solo 0 y 1 (bits) como las computadoras normales, utiliza cúbits, que pueden ser 0 y 1 simultáneamente gracias a una propiedad cuántica llamada superposición. Los cúbits utilizan la capacidad de las partículas cuánticas para resolver nuevos tipos de problemas, como descifrar códigos o resolver problemas complejos con gran rapidez.



STANDARD COMPUTER

COMPUTADORA ESTÁNDAR



QUANTUM COMPUTER

COMPUTADORA CUÁNTICA

1’

3’9”

1 **QUANTUM COMPUTERS - SAMPLE LABEL DECK**

NOT TO SCALE

PROJECT

QUANTUM WORLD

INSIDE THE ATOM

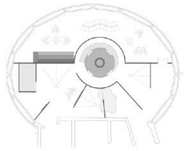
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.5.05

COLLATERAL

PROJECT

QUANTUM WORLD

INSIDE THE ATOM

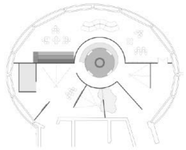
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.5.06

PROMOTIONAL

PROJECT

QUANTUM WORLD

INSIDE THE ATOM

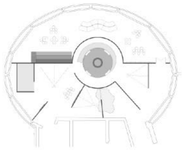
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.5.07

EX. 6.00

PROTOTYPE AND 3D BUILD

MIDTERM PRESENTATION

Critique:

Consider integrating a large-scale LCD holographic screen into the exhibition space, rather than keep it small-scale.

Add additional interactive points to keep audiences engaged.

Further enclose areas with projections for maximum effect.

Postive Feedback:

Felt highly professional and refined.

Enjoyed the interactive concepts.

Appreciated the high level of detail.

Loved the 3D renderings.

Table Styling: LCD hologram monitor screen with animation, material samples, stickers, business cards, and interactive iPad.

PROJECT

QUANTUM WORLD

INSIDE THE ATOM

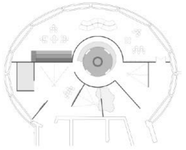
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.6.01

FINAL BUILD TIMELINE

MARCH 31-APRIL 04

Monday:

Build MDF Base: Cut, sand, and assemble the MDF rectangular base. Create openings for lighting.

Source Presentation Pedestal: Procure or purchase a pedestal for presentation deck.

Wednesday:

Build MDF Frame for Mirrors: Construct an MDF frame to hold the mirrors and textured pieces. (Does not need to be completed yet).

Outside of studio:

Assemble Paper Cat Model: Build the pre-cut paper cat model with precise folding and gluing.

Order Mirrors and Acrylic: Purchase mirrors and acrylic sheets to precise dimensions.

Design Graphic for Label: Create a high-resolution label design in Illustrator.

Purchase Materials: Purchase tacky glue, moss, and lighting fixture.

APRIL 07-APRIL 11

Monday:

Build MDF Frame for Mirrors: Construct an MDF frame to hold the mirrors and textured pieces (Finish this week).

Add Lighting: Rig and install purchased lighting into base.

Wednesday:

Add Feather Finish and Moss Texture: Apply feather finish and attach moss for texture.

Outside of studio:

Design Graphic for Label: Finalize label deck graphic.

APRIL 21-APRIL 25

Monday:

Attached textured panels: Install textured panels of mirror frame.

Print Label Deck on Adhesive-Back Vinyl: Print the label deck on adhesive vinyl for easy application.

Build Label Deck: Cut MDF or acrylic to label deck size.

Wednesday:

Paint/Vinyl Exterior: Finish the base exterior with paint or matte white vinyl.

Outside of studio:

Create CNC File: Optimize vector logo for CNC routing.

APRIL 28-MAY 02

Monday:

Attach Label Deck: Mount label deck smoothly onto the front piece.

Install Mirrors: Securely mount the mirrors into the MDF frame.

Wednesday:

Cut and Apply Vinyl Callouts: Cut and precisely apply the vinyl callouts.

Laser/CNC Cut Acrylic Logo: Cut the acrylic logo with clean, polished edges.

Outside of studio:

Design Callouts: Design vector graphics for white vinyl callouts.

MAY 05-MAY 09

Monday:

Attach Logo: Securely mount logo panels to the display.

Finalize: Add any finishing touches to the display.

Wednesday:

Install: Safely install display into FIT Lobby.

PROJECT

QUANTUM WORLD

INSIDE THE ATOM

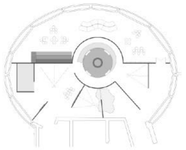
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN

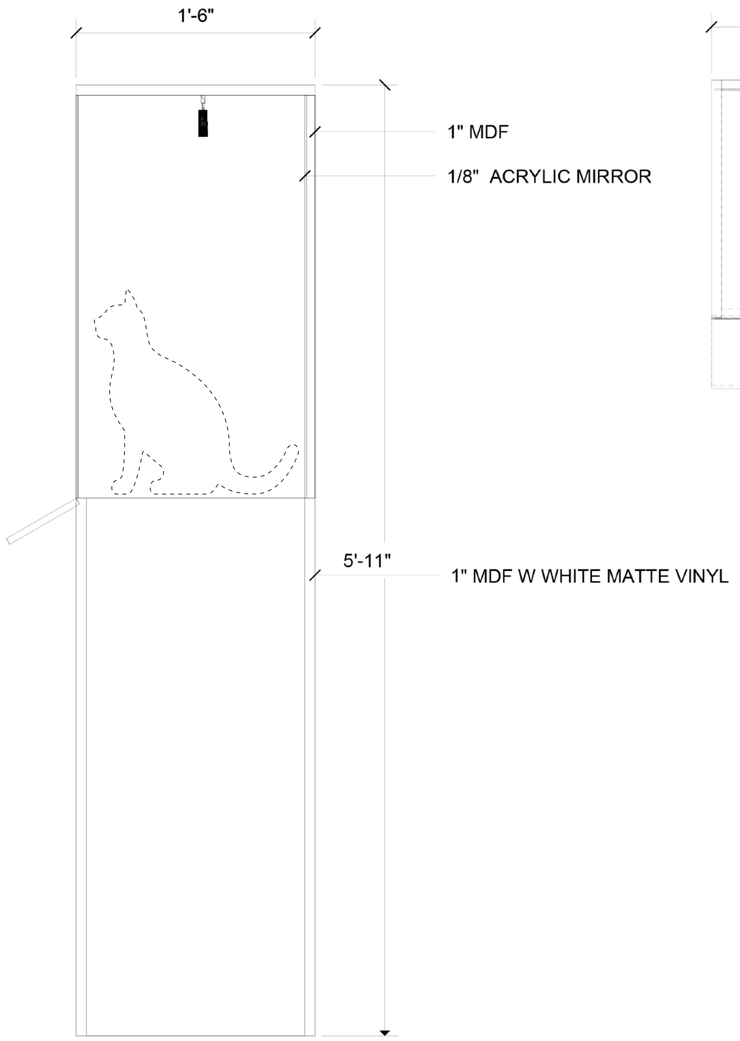


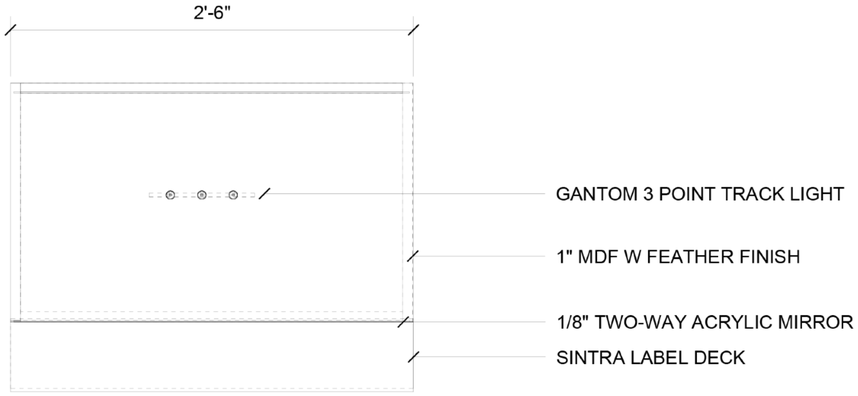
NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.6.02





1

SCHRÖDINGER - DETAIL

SCALE 1” - 1’0”

PROJECT

QUANTUM WORLD

INSIDE THE ATOM

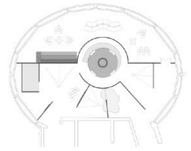
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.6.03

FINAL BUILD PROCESS

PROJECT

QUANTUM WORLD

INSIDE THE ATOM

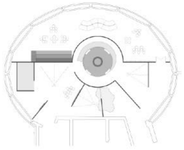
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.6.04

FINAL BUILD IMAGES

PROJECT

QUANTUM WORLD

INSIDE THE ATOM

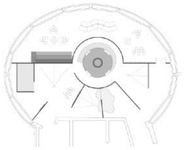
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



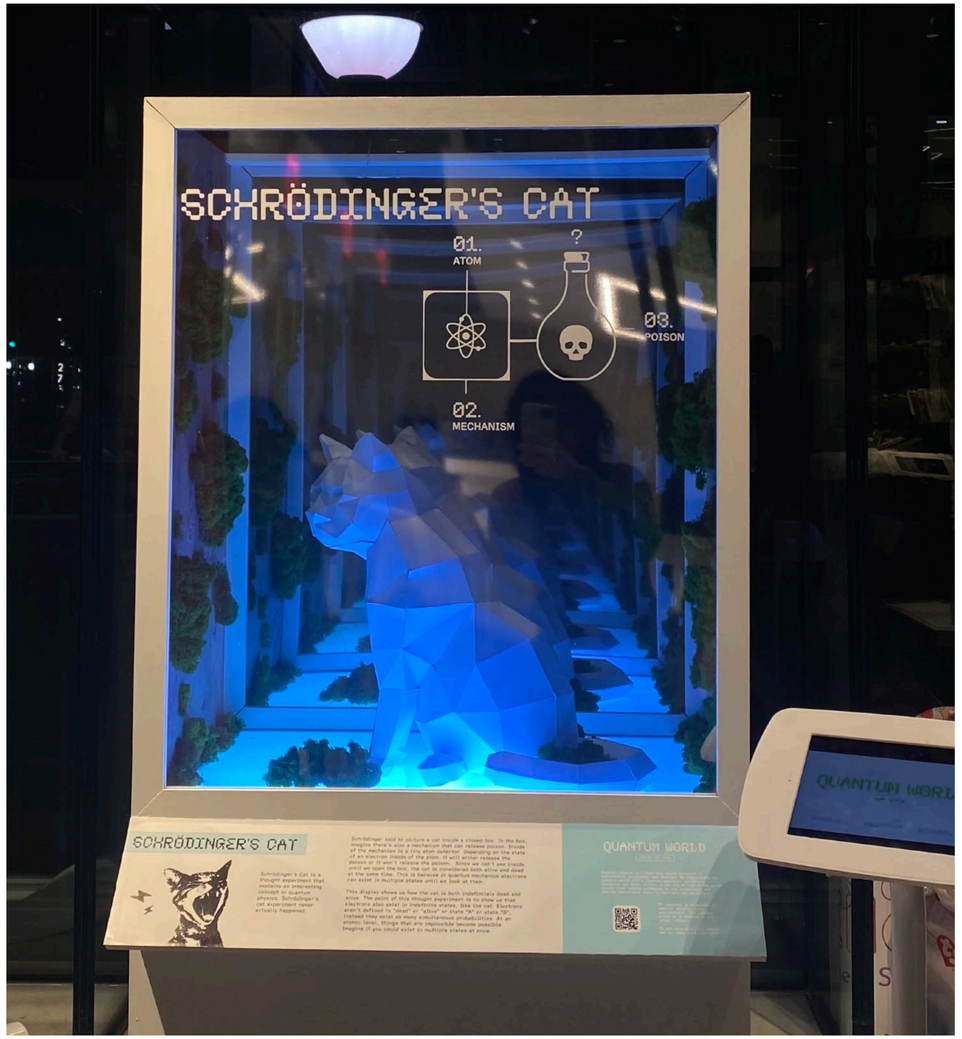
NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.6.05

FINAL BUILD IMAGES



PROJECT

QUANTUM WORLD

INSIDE THE ATOM

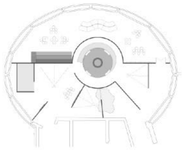
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



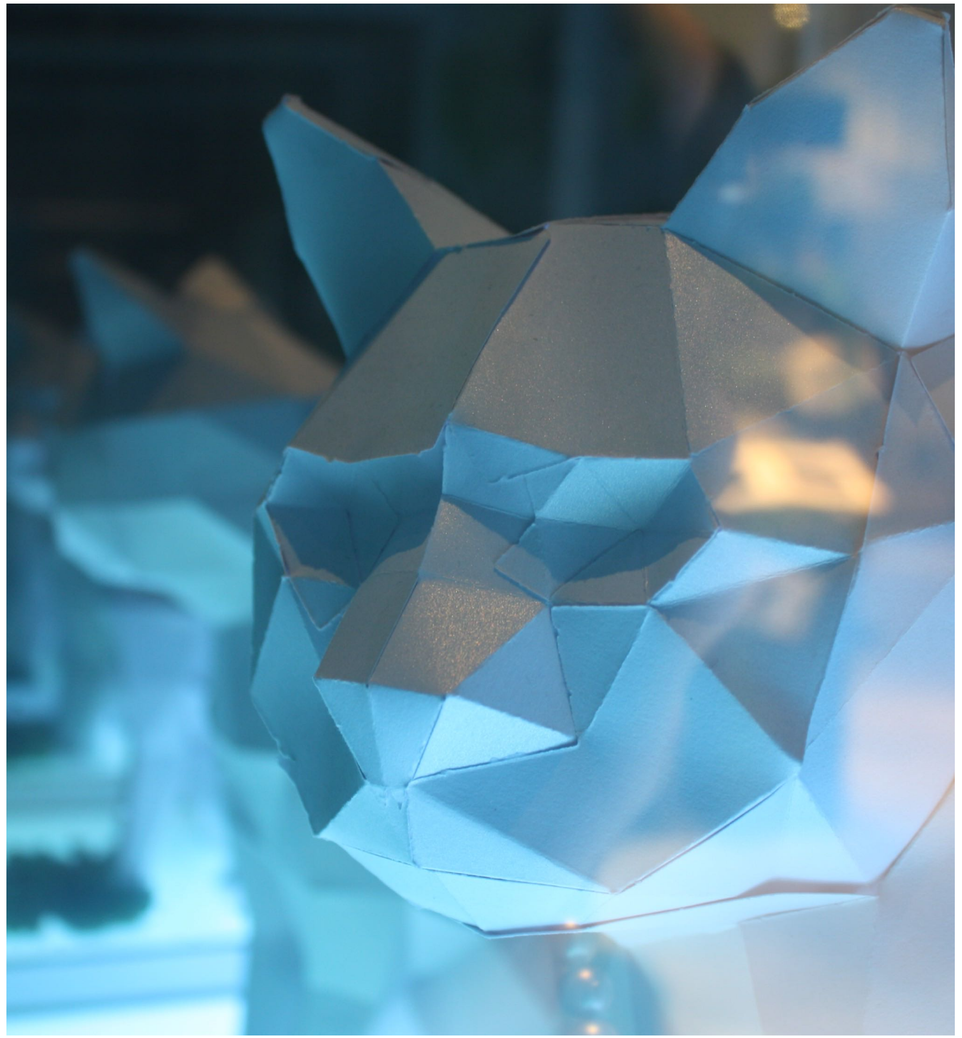
NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.6.05

FINAL BUILD IMAGES



PROJECT

QUANTUM WORLD
INSIDE THE ATOM

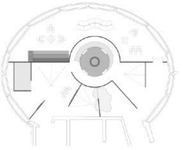
LOCATION/CLIENT

nysci

DESIGNER

Kashi Nanavati
kashinanavati@gmail.com
kashinanavati.com

KEY PLAN



NOTE

DRAWINGS FOR DESIGN USE ONLY.
NOT FOR CONSTRUCTION.

DRAWING NUMBER

EX.6.05

KASHI NANAVATI
FASHION INSTITUTE OF TECH.

SPATIAL EXPERIENCE DESIGN
SPRING 2025

DESIGN DEVELOPMENT
GRADUATING EXHIBITION

FOR MORE VISIT KASHINANAVATI.COM