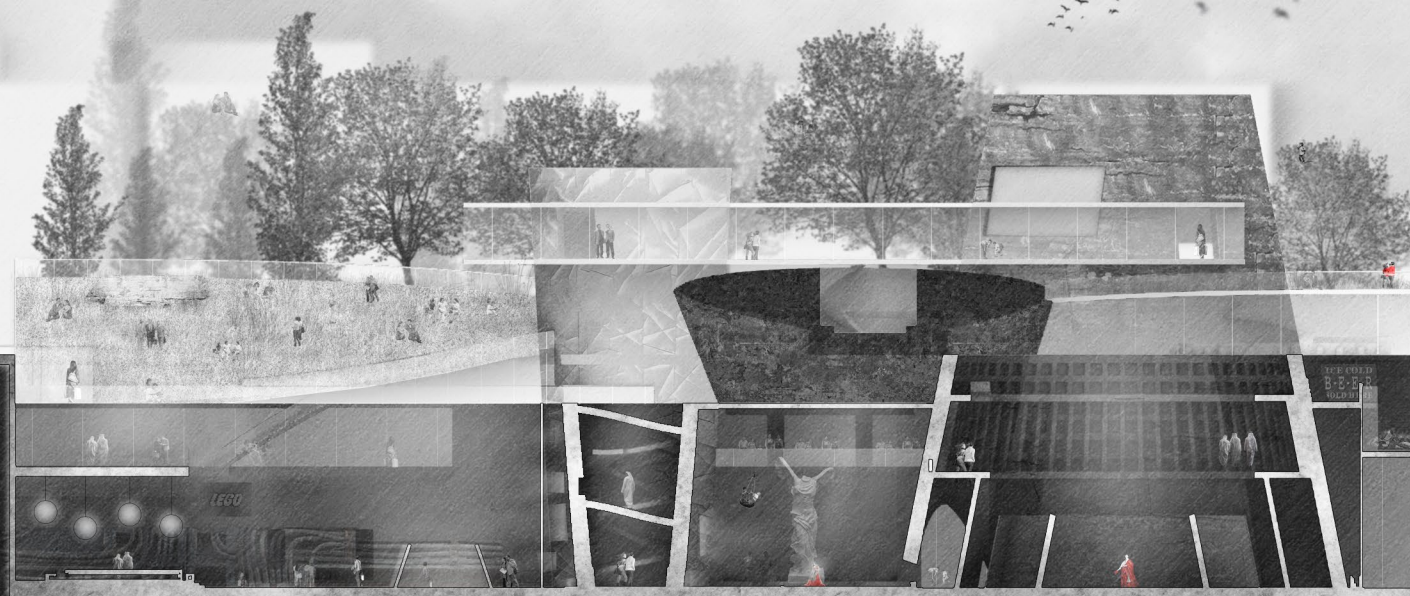


# POLARIZATION

Innovation Community  
Individual Work  
Spring 2021

The project is located beside an planned axis in the east part of Tsinghua University. The building is designed to provide a place for students from different majors cooperating with each other to get inspirations and create innovative works.

In this work, the prototype "courtyard origin", which is a kind of space helping users focus, is referred to. Besides the rectangular prototye, the project introduce the circular space, which means stronger power of concentration, trying to regard prototypes as symbols of the logic of gathering and distribution.





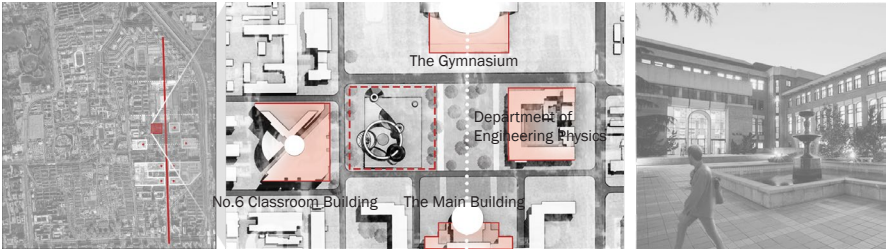
History of the Site

The site is located besides the main axis of the "White Area" in Campus Planning, on which most important architectures, including the main building and the gymnasium, are also located.



The Chenming natatorium      The Gymnasium      The Main Building      The southeast gate

Elements around the Site



The rhythm of the axis area      The spatial form around the site      The Courtyard Origin


The area along the axis is a typical Moscow University campus plan, forming a rhythmic sequence about the volume on the plan along the central axis: void - solid - void-solid... According to the rhythm, the site place should be solid.

The Buildings around the site have a uniform formal character. All of them adhere to clear boundaries and at the same time take the elements of square and circle. Meanwhile, the west building No.6 Classroom Building and the east building Department of Engineering Physics take the form of semi-open **Courtyard Origin**, which indicates the directionality of space through opening. The building symmetrical to the site opens to the east.

The prototype "courtyard" could be an original space of monastery. The form is designed to meet the necessary demands of dormitory and dinning, so that apprentices can focus on their disciplines. After centuries, the prototype is adapted to college buildings.


**Visitor**

People who are curious and come to visit the exhibition. They usually observe others through skylight.




**Creators**

Users of this architecture, they stay in individual spaces and are immersed in creating, may be crazy occasionally.




**Passerby A**

He/She is just a passerby A wandering on slope. Or you can also call him or her passerby B or passerby C.



**Organizer**

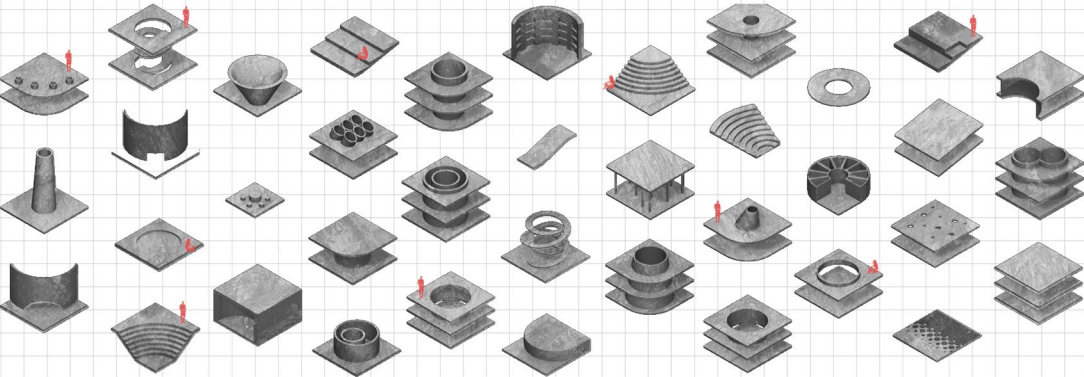
Professors, staffs, who organize group activities, such as lectures, courses, in auditorium-like space.



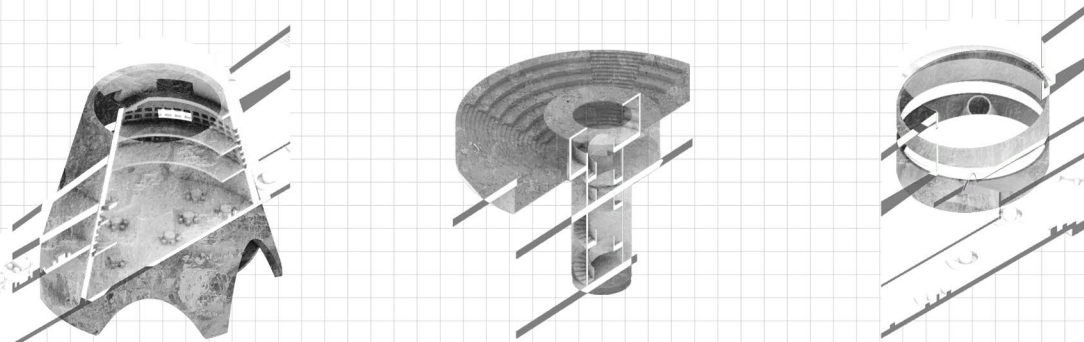
People & Section Operations

The logic of operation on section can be interpreted to be a kind of power acting on floors. The vertical power makes floors form different prototypes for diverse functions. The power can be executed in a circle area and form different units which will be mentioned on the right side. The units for kinds of users can be organized in a planar logic to compose the project.

Prototype Units



Main Modules Manual - The Composition

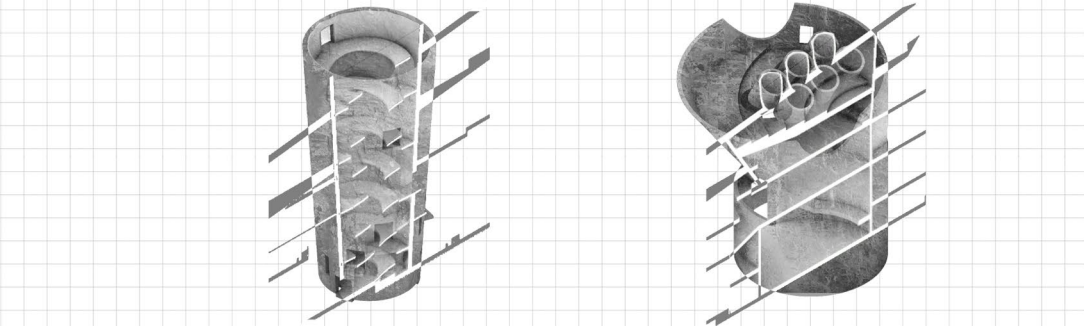


- 1 Omniscient Shrine**

Thick tabletop moldings, with books hidden inside by hollowing out niches. It penetrate all floors and introduced natural light into the underground, sacred and solemn.
- 2 Underground Passage**

The entrance directly towards underground spaces. Sometimes exhibition can be held in the glass room on the ground. The auditorium-like stairs can be a position to rest and appreciate sceneries.
- 3. Floating Hopewell**

It penetrates the slope on exhibition hall and introduce fresh light and air into modules that penetrate the gray space. The light it introduces rules the entire gray space and creates interoperability of sight lines.

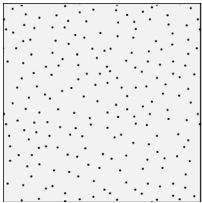


- 4. Kaleidoscope**

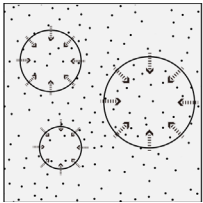
Endless ramps, multiple "La Chapelle de Ronchamp" openings and access platforms - the whole space is experiential, collage and dizzying.
- 5 Main Assembly Hall**

A massive, eccentric, inverted frustum of a cone, supporting the slope and forming the facade. As the main entrance and lecture hall on the east side, it assumes the function of an "ancient Greek theater".

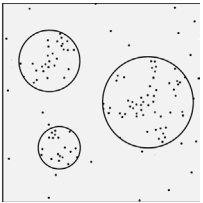
Logical Principle



The quadrangular courtyard encloses an area which limit people's activity. However, thereis no clear direction in this range.



Since circular prototype has clear centrality, if circles are put in a quadrangular courtyard as another kind of courtyard, they will generate stronger force towards centers.



Compared the situation that people spread evenly in the quadrangular courtyard, the crowds will move and concentrate in assigned circular courtyards.

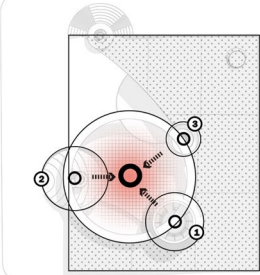
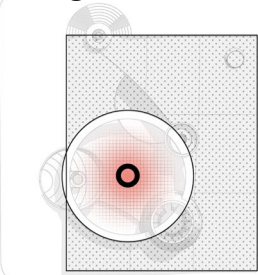
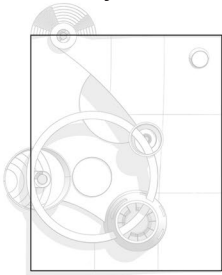
So what if I regard "square" and "circle" courtyard as logical symbols of distribution and concentration respectively?

PLAN Generation - Attention Demands Sorting

○ Concentration — Weak Connection ✕ Repulsive Force

Surface Layer - Breaking Homogenization

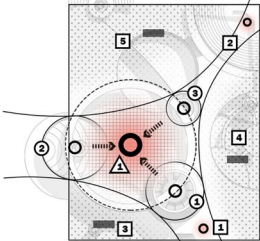
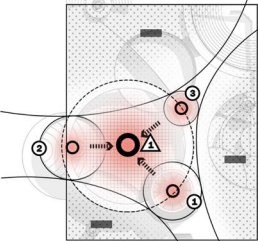
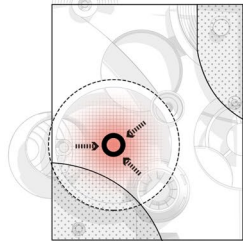
Rank of attention (from highest to lowest): Library - Auditorium - Exhibition



The top layer exposed to outside. Students get relaxed and keep moving with wandering attention here. The most important three modules are decided in this layer. The three units are organized by the ring, which emphasis the centremost circular area.

Middle Layer - Weaken the Connection

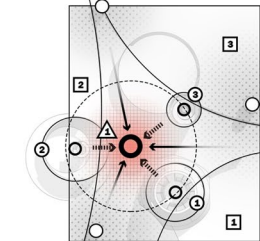
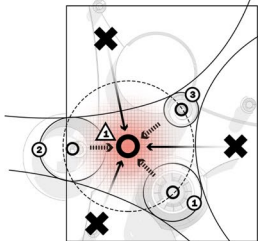
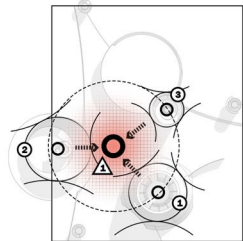
Supply area - Screening hall - Coffee break area -Tour trails - Entertainment area



Middle Layer. Users getting underground gradually find their destinations. Meanwhile higher attention demands are proposed. The three modules generate three anti-arc areas which are weakly connected.

Bottom Layer - Strongly Differentiated

Self-study area - Classrooms - Discussion area



The deepest layer where users work with the highest attention. Active and silent area are divided clearly. Three repulsive points are set to be traffic cores, generating new three anti-arc areas, which are most concentrated areas in the building.

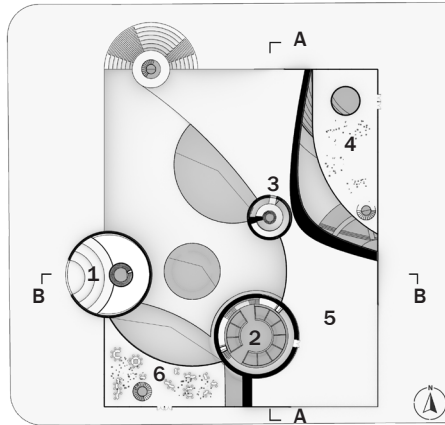
SITE PLAN

The site are once covered by grove. The project obey the rhythm of the college planning, meanwhile take the strategy of earth-sheltered architecture to preserve greening rate.



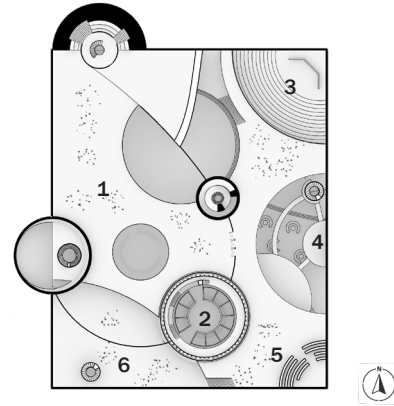


## Plans



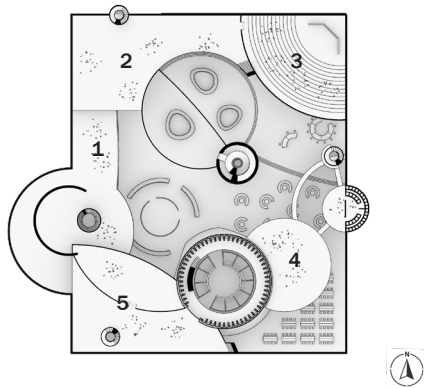
**First Floor Plan**

- 1 - Outside Auditorium
- 2 - Library
- 3 - Kaleidoscope
- 4 - Meditation Room
- 5 - Outside Green Area
- 6 - Cafe



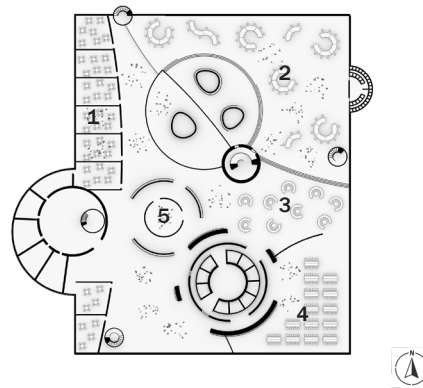
**Basement Level 1 Plan**

- 1 - Sunken Square
- 2 - Library
- 3 - Screening Hall
- 4 - Tour Trails
- 5 - Supply Area
- 6 - Coffee Break Area



**Basement Level 2 Plan**

- 1 - Viewing Level
- 2 - Entertainment Area
- 3 - Screening Hall
- 4 - Rest Platform
- 5 - Coffee Break Area



**Basement Level 3 Plan**

- 1 - Classrooms
- 2 - Discussion Area
- 3 - Rest Area
- 4 - Self-study Area
- 5 - Exhibition Area

## Sections

Operations on floors are visible from sections. Modules penetrating through floors provide lighting for underground spaces. Sprawling grass slopes fit in the green environment around smoothly. Additionally, the library module can be a highest viewpoint and the ring cantilever above the main traffic Road Xinmin, both of which form conspicuous landmarks.

