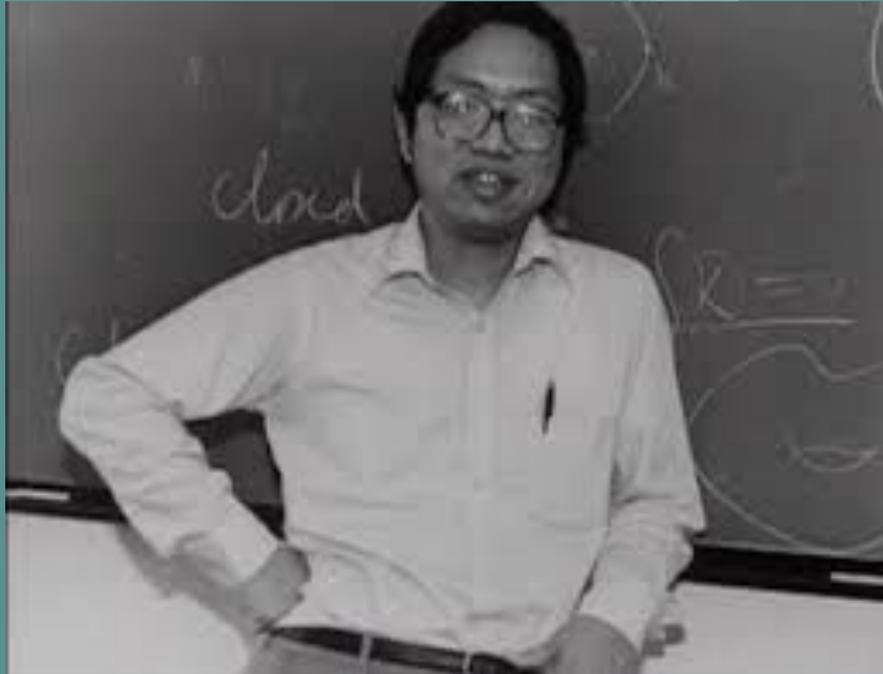


THE HISTORY OF SHING TUNG YAU

LUCAS
SPRING SHOWCASE PROJECT



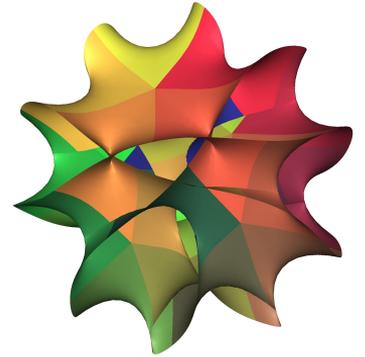
PERSONAL INFORMATION



- **SHING TUNG YAU WAS BORN APRIL 4, 1949**
- **HE SPENT ALL HIS FREE TIME IN THE MATH LIBRARY, WHERE HE ALWAYS SEARCHED FOR INTERESTING ARTICLES, TO SPEND TIME IN HIS OFFICIAL OFFICE.**
- **HIS FATHER WAS AN ECONOMIST AND PHILOSOPHER WHO WORKED IN SOUTH CHINA.**

MATHEMATICAL ACCOMPLISHMENTS

- THE CALABI CONJECTURE WAS PROVED BY SHING-TUNG YAU. IT TOOK HIM ALMOST A YEAR TO FIGURE IT OUT, FROM
- A WELL-KNOWN YAU CONJECTURE STATES THAT THE FIRST PECULIAR VALUE IN THE UNIT SPHERE $S^{n+1}(1)$ OF EACH CLOSED MINIMAL HYPERSURFACE M^n IS JUST ITS DIMENSION n .



TIMELINE

· EVENT 1: SIGNING OF THE NATO

○ DESCRIPTION: THE NORTH ATLANTIC TREATY ORGANIZATION (NATO) WAS SIGNED ON APRIL 4TH 1949 BY TWELVE COUNTRIES. THE END OF WORLD WAR II, GLOBAL POLITICS' STABILITY TURNED DRAMATICALLY.

○ YEAR: 1949

· EVENT 2: WE PUT A MAN ON THE MOON!

○ DESCRIPTION: NEIL ARMSTRONG, EDWIN ALDRIN AND MICHAEL COLLINS WERE THE ASTRONAUTS ON APOLLO II. FOUR DAYS LATER, ARMSTRONG AND ALDRIN LANDED ON THE MOON.

○ YEAR: JULY 20, 1969

· EVENT 3: SEPTEMBER 11 ATTACKS

○ DESCRIPTION: THE SEPTEMBER 11 ATTACKS WERE A SERIES OF FOUR COORDINATED TERRORIST ATTACKS BY THE ISLAMIC TERRORIST GROUP AL-QAEDA AGAINST THE UNITED STATES

○ YEAR: SEPTEMBER 11, 2001

· EVENT 1: THE BIRTH OF SHING TUNG YAU

○ DESCRIPTION: HE WAS BORN IN SHANTOU, CHINA.

○ YEAR: APRIL 4, 1949

· EVENT 2: CALABI CONJECTURE HAS BEEN PROVEN.

○ DESCRIPTION: THE CALABI CONJECTURE WAS PROVED BY SHING-TUNG YAU

○ YEAR: 1977, 1978

· EVENT 3: YAU'S CONJECTURE

○ DESCRIPTION: A WELL-KNOWN YAU CONJECTURE STATES THAT THE FIRST PECULIAR VALUE IN THE UNIT SPHERE $S_{n+1}(1)$ OF EACH CLOSED MINIMAL HYPERSURFACE M^n IS JUST ITS DIMENSION n .

○ YEAR: 1982



WEBSITES USED.

The highlighted is a new source with better information.

http://www.scholarpedia.org/article/Calabi-Yau_manifold#The_Calabi_conjecture

<https://www.nytimes.com/2006/10/17/science/17yau.html>

<https://www.britannica.com/biography/Shing-Tung-Yau>

<https://physicstoday.scitation.org/doi/10.1063/PT.5.3035/full/>

<http://mathshistory.st-andrews.ac.uk/Biographies/Yau.html>

FUN FACTS!



- HE RECEIVED FIELDS MEDAL FOR DIFFERENTIAL GEOMETRY RESEARCH IN 1982.
- YAU ALSO RECEIVED THE FIELDS MEDAL AT THE INTERNATIONAL CONGRESS OF MATHEMATICIANS, FOR HIS WORK IN GLOBAL DIFFERENTIAL GEOMETRY.
- DID YOU KNOW ON APRIL 4, 1949, YAU'S BIRTHDAY, TWELVE COUNTRIES SIGNED THE NORTH ATLANTIC TREATY, FORMING THE NORTH ATLANTIC TREATY ORGANIZATION (NATO).