Galaxy's Edge is so ambitious Disneyland fans may not be ready for it



Ashton Kutcher testifies in trial of serial killer suspect Michael Gargiulo



A devastating analysis of the tax cut shows it's done virtually no economic g

OBITUARIES LOCAL

Murray Gell-Mann, Nobel-winning physicist who brought order to the universe, dies

By ASSOCIATED PRESS MAY 28, 2019 | 4:55 PM





Santa Fe Institute co-founder Murray Gell-Mann, winner of the 1969 Nobel Prize for physics, at the institute in 2003. (Jane Bernard / AP)

Murray Gell-Mann, the Nobel Prize-winning physicist who brought order to the universe by helping discover and classify subatomic particles, has died at his home in New Mexico. He

was 89.

Gell-Mann died Friday at his home in Santa Fe. His death was confirmed by the Santa Fe Institute, where he held the title of distinguished fellow, and Caltech, where he taught for decades. The cause was not disclosed.

Gell-Mann transformed physics by devising a method for sorting subatomic particles into simple groups of eight — based on electric charge, spin and other characteristics. He called his method the "eightfold way" after the Buddhist Eightfold Path to enlightenment.

Later Gell-Mann developed the theory that identified quarks, indivisible components of Earth's matter that make up protons, neutrons and other particles. Experiments confirmed the existence of quarks, and these objects now form the basis for our physical understanding of the universe, Caltech said in a statement.

"It would be hard to overestimate the degree to which Murray dominated theoretical particle physics during his heyday in the 1950s and 1960s. He contributed so many deep ideas that drove the field forward, many of which are just as relevant today," said John Preskill, the Richard P. Feynman Professor of Theoretical Physics at Caltech.

Caltech mourns the passing of Murray Gell-Mann. He died May 24 at the age of 89.

A Nobel Laureate in Physics, Gell-Mann is perhaps best known for developing the theory of "quarks." <u>https://t.co/sCDR5774TX</u> <u>pic.twitter.com/oX77MYJfMd</u> — Caltech (@Caltech) May 24, 2019

In 1969, Gell-Mann was honored with the Nobel Prize in Physics "for his contributions and discoveries concerning the classification of elementary particles and their interactions."

Born and raised in New York City, Gell-Mann received a bachelor's degree in physics from Yale University in 1948 and a doctorate from Massachusetts Institute of Technology in 1951.

In later years, Gell-Mann became interested in the issues of complexity at the heart of biology, ecology, sociology, and computer science. He co-founded the Santa Fe Institute to study complex systems and authored the 1994 book "The Quark and the Jaguar" to present his ideas to a general audience.

He is survived by his children, Nicholas Gell-Mann and Elizabeth Gell-Mann, and stepson



Essential California Newsletter Monday - Saturday

A roundup of the stories shaping California.

ENTER YOUR EMAIL ADDRESS

COMMENTS (1)

MOST READ

HERO COMPLEX

Galaxy's Edge is so ambitious Disneyland fans may not be ready for it 6:30 AM

L.A. NOW

Ashton Kutcher testifies in trial of serial killer suspect Michael Gargiulo

4h

COLUMN

A devastating analysis of the tax cut shows it's done virtually no economic good $_{\rm 5h}$

MIDDLE EAST

Israel to hold new elections after Netanyahu fails to form a coalition government ^{1h}

POLITICS

Mueller says his investigation did not exonerate Trump

1h



>





MAY 28, 2019 | 9:05 PM

In a previous version of this article, Murry Gell-Mann's last name was misspelled in some instances as Gell-Man.

LATEST OBITUARIES

Robert Bernstein, publisher and champion of dissidents around the world, dies at 96 1h

Murray Gell-Mann, Nobel-winning physicist who brought order to the universe, dies MAY 28, 2019

Tony Horwitz, 'Confederates in the Attic' author, dies at 60 MAY 28, 2019

Edmund Morris dies; controversial Ronald Reagan biographer was 78 MAY 28, 2019

Bill Buckner, former Dodger and a Red Sox legend, dies at 69 MAY 27, 2019

Sign up for our newsletters Subscribe for unlimited access

V F

Copyright © 2019, Los Angeles Times



Corrections **Privacy policy** L.A. Times careers Find a job Shop









