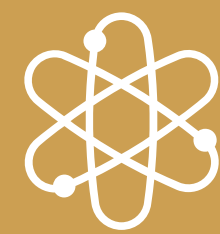


THE
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ALL NOBEL PRIZES 2023

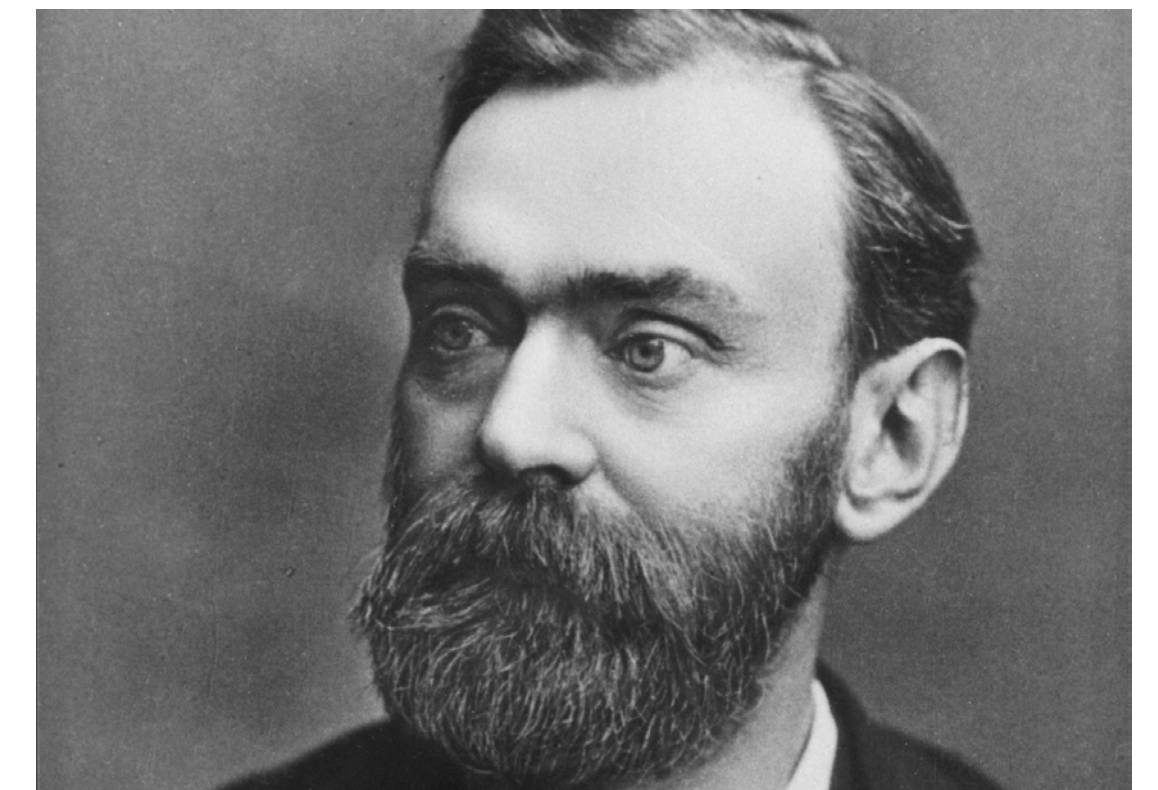
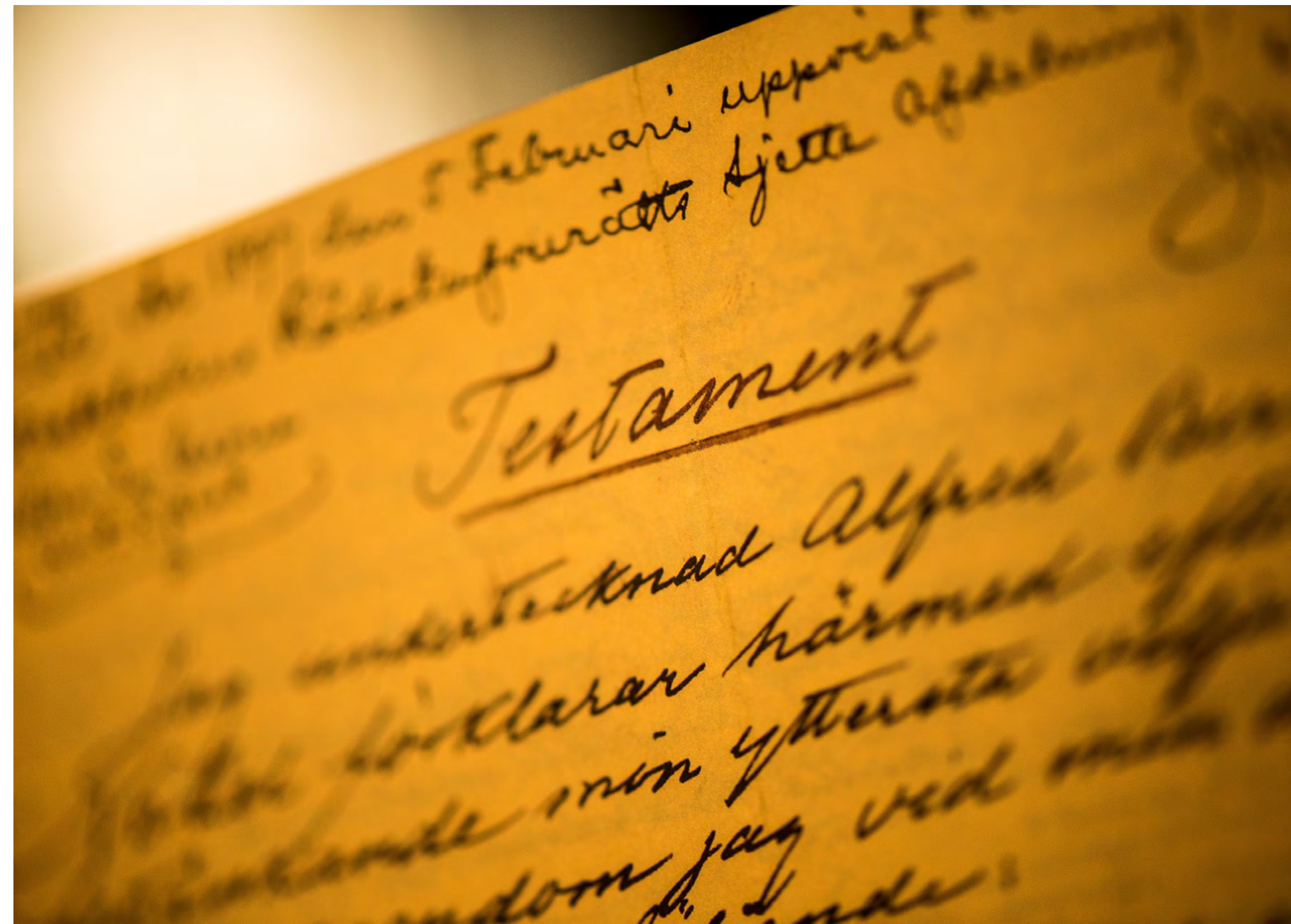


Nobel Prize lessons

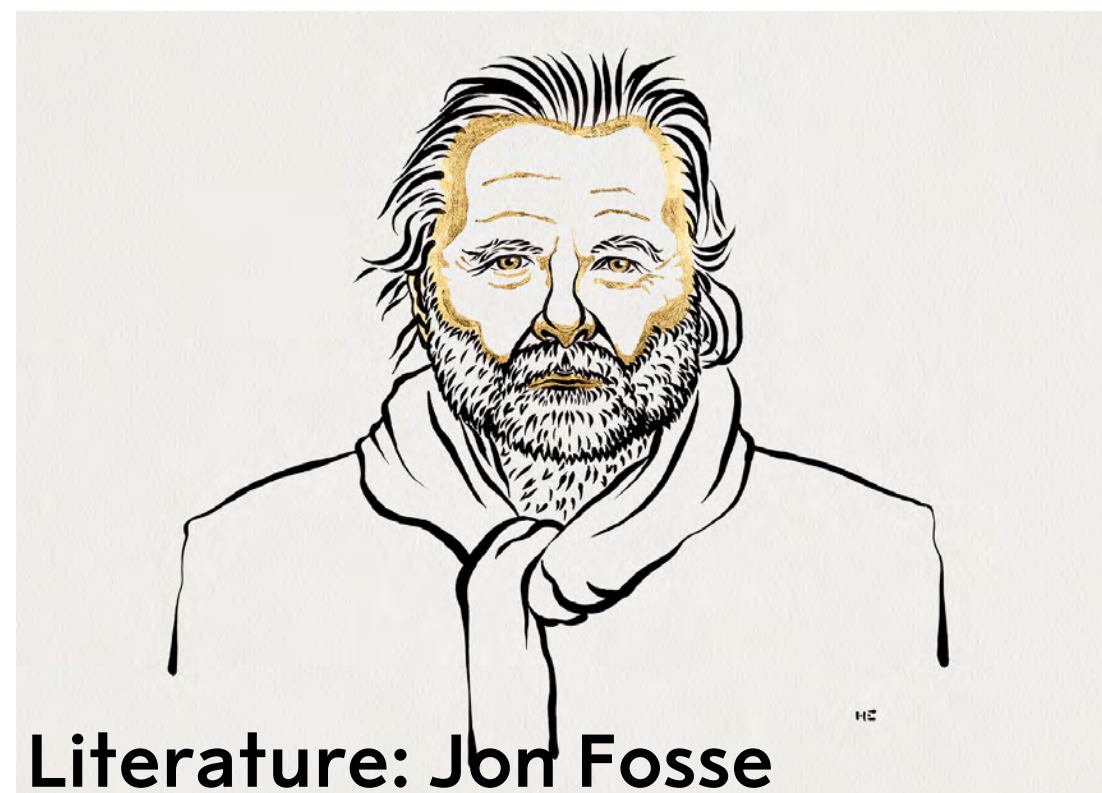
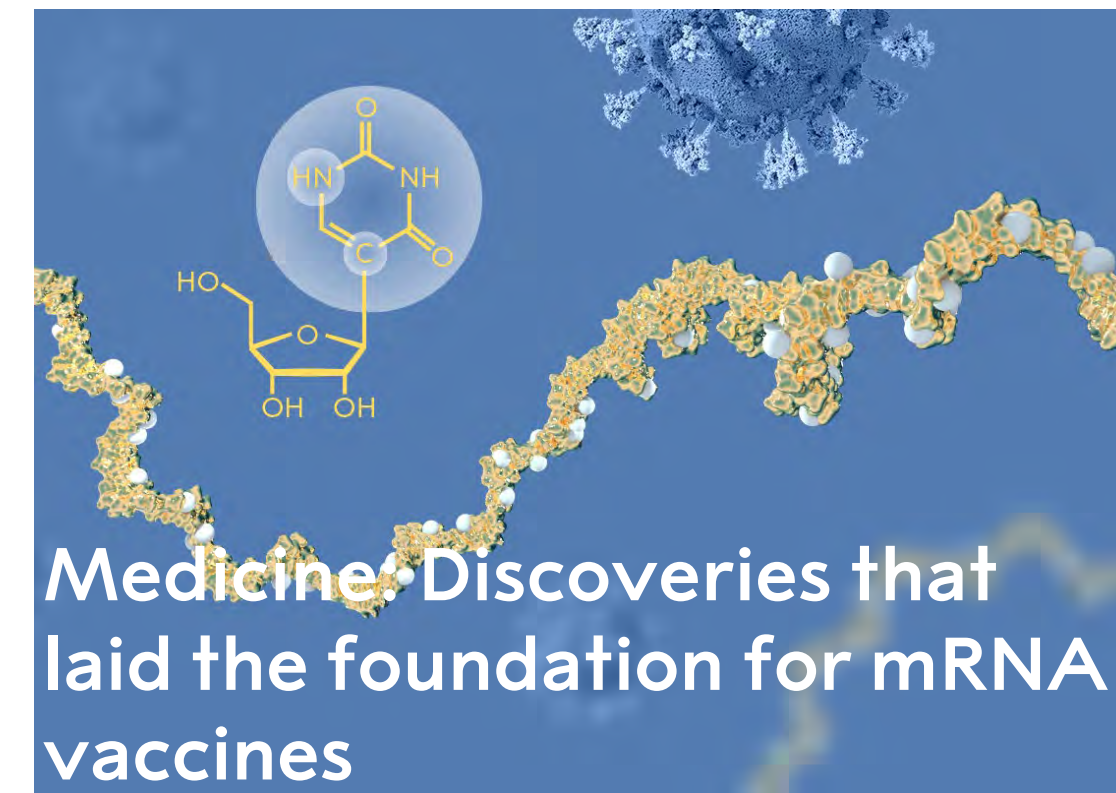
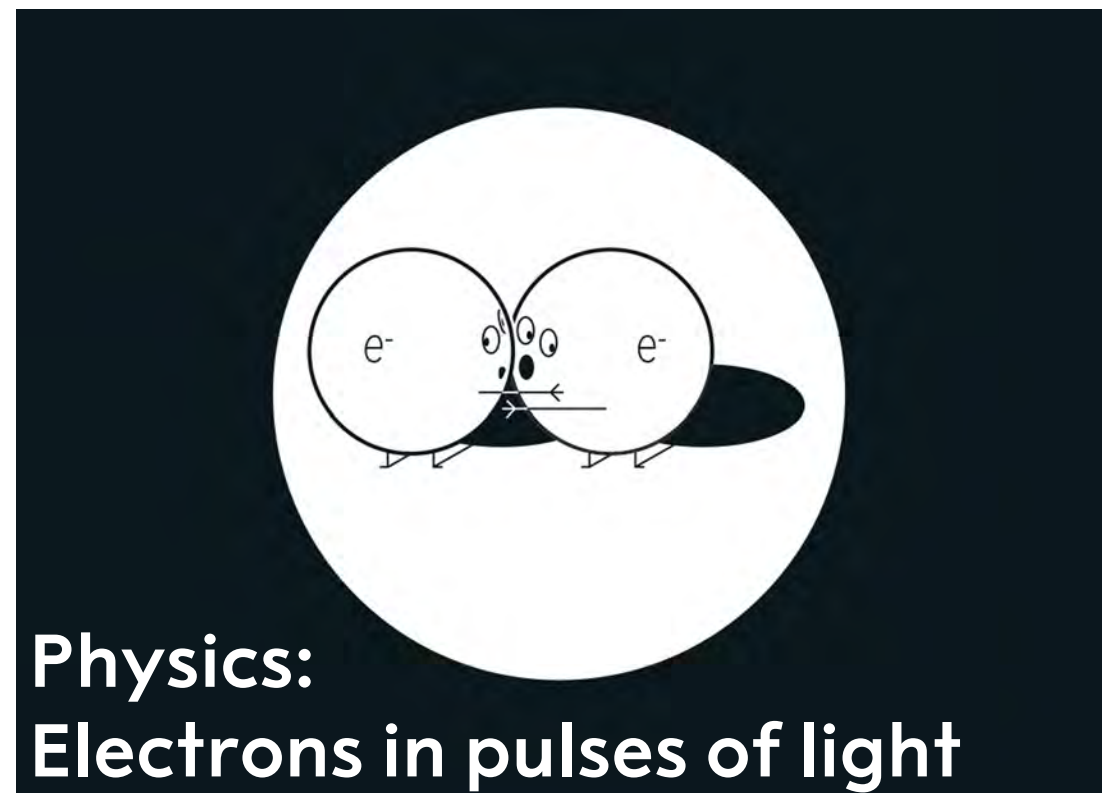
The Nobel Prize

“to those who, during the preceding year, shall have conferred the greatest benefit to humankind”

Alfred Nobel
(1833–1896)

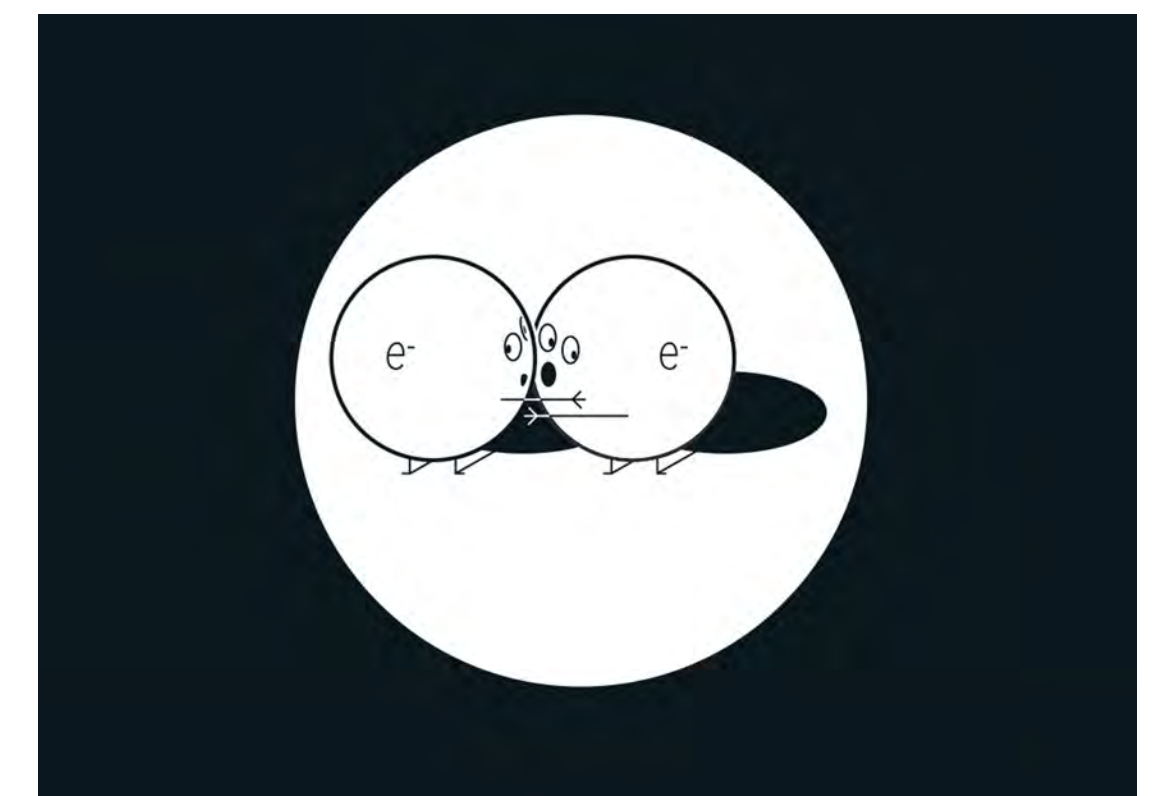
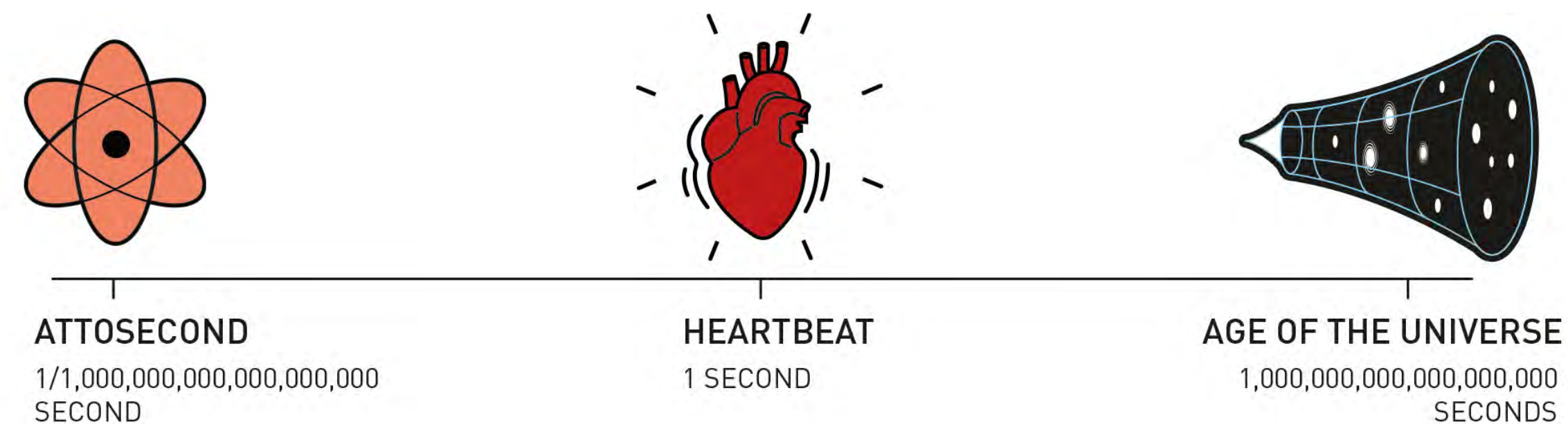


What are the 2023 Nobel Prizes about?



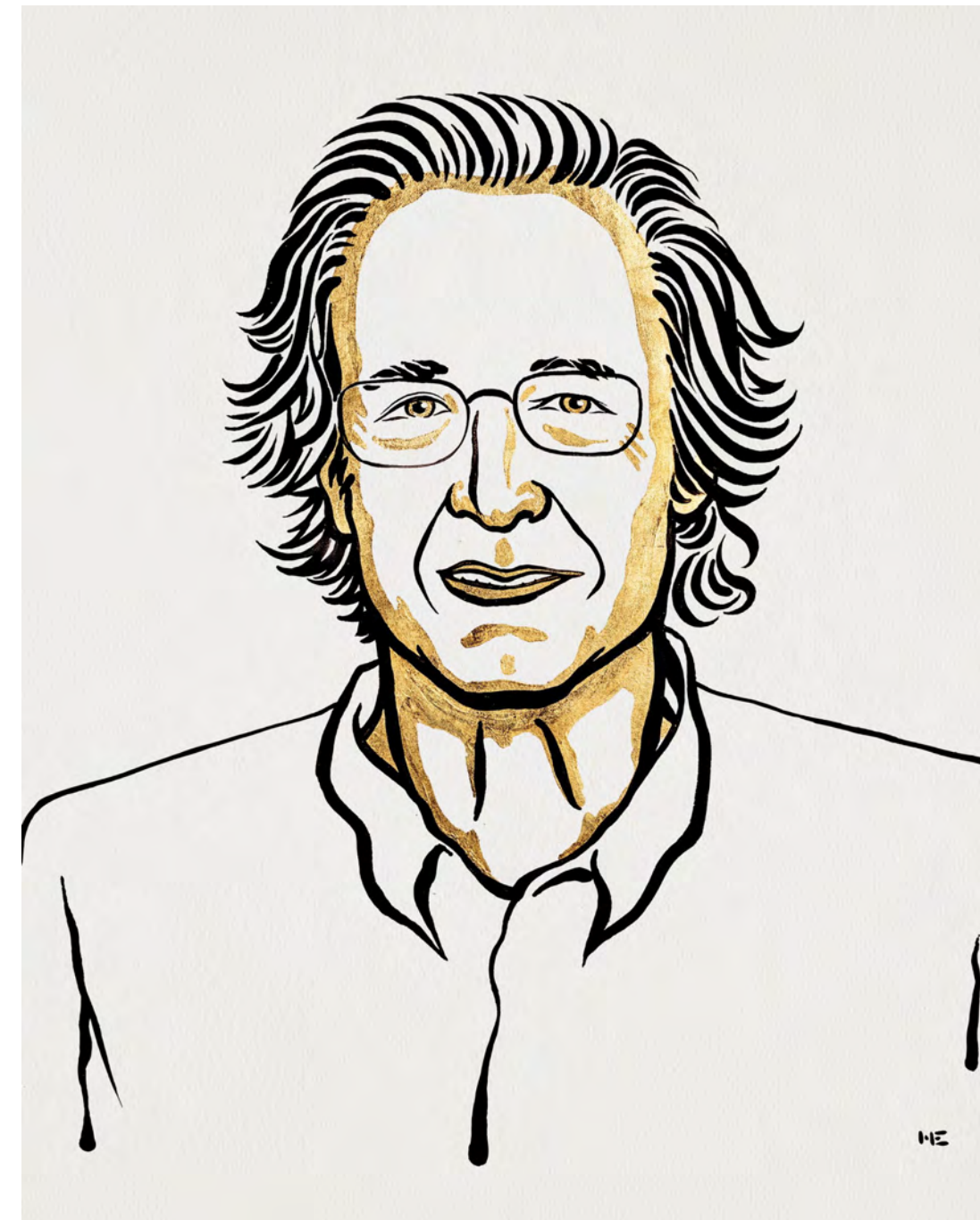
Physics prize 2023 – Electrons in pulses of light

The 2023 physics prize recognises experiments with short pulses of light that can capture momentary images of the movements of electrons.



2023 physics laureates

"for experimental methods that generate attosecond pulses of light for the study of electron dynamics in matter"



Pierre Agostini
Born: 1941, French protectorate of Tunisia (now Tunisia)



Ferenc Krausz
Born: 1962, Hungary



Anne L'Huillier
Född: 1958, Frankrike

Chemistry prize 2023 – They added colour to nanotechnology

The 2023 Nobel Prize in Chemistry rewards the discovery and development of *quantum dots*, which have made possible new ways of creating coloured light.



PHOTO: LEN RUBENSTEIN



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2023 chemistry laureates

“for the discovery
and synthesis of
quantum dots”



Moungi G. Bawendi
Born: 1961, France



Louis E. Brus
Born: 1943, USA



Aleksey Yekimov
Born: 1945, former USSR

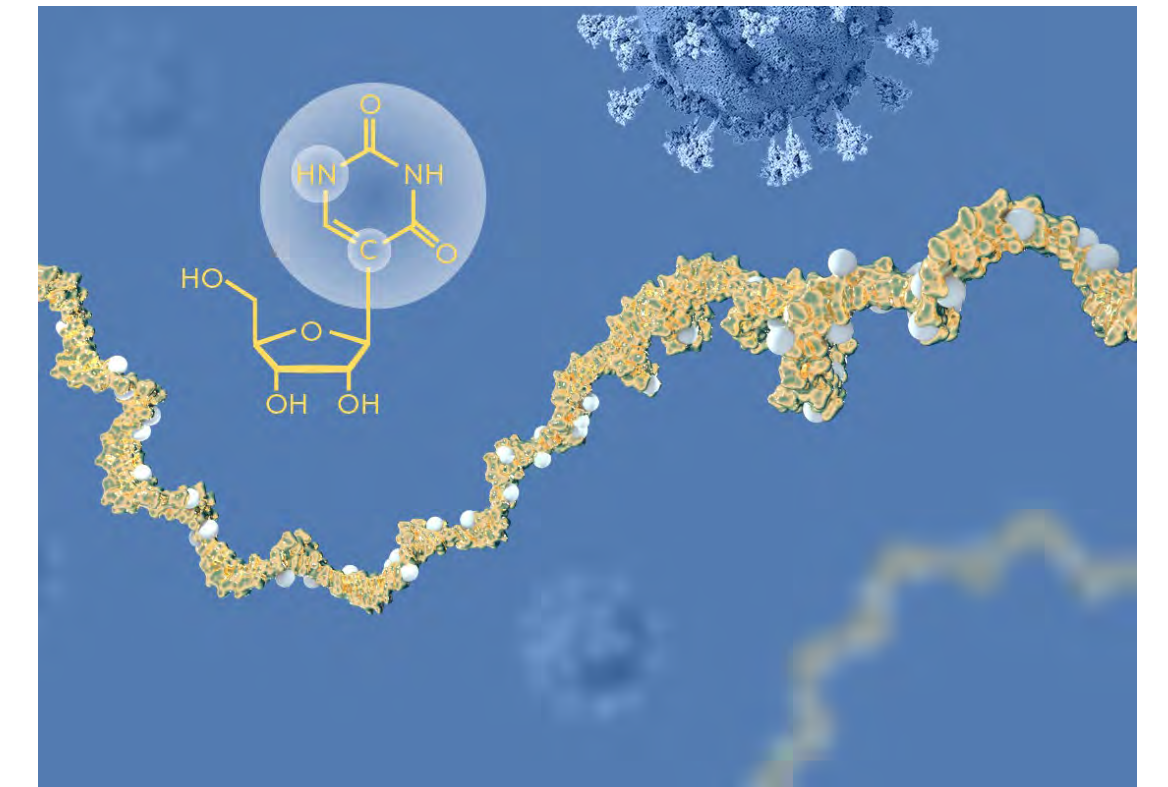
The 2023 medicine prize

– Discoveries that laid the foundation for mRNA vaccines

The 2023 medicine prize honours discoveries that played a decisive role in the fight against the coronavirus pandemic. The laureates' research made it possible for effective vaccines to be developed against COVID-19, an airborne viral infection.



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The 2023 medicine laureates

“For their discoveries concerning nucleoside base modifications that enabled the development of effective mRNA vaccines against COVID-19.”



Katalin Karikó
Born: 1955, Hungary



Drew Weissman
Born: 1959, USA

ILL. NIKLAS ELMEHED © NOBEL PRIZE OUTREACH

The 2023 literature prize – Jon Fosse



Jon Fosse
Born: 1959, Norway

“for his innovative plays and prose which give voice to the unsayable”

“... it’s a memorable day, Asle is leaving his childhood home while he’s still so young, so that’s the end of his adolescence, the end of childhood, but that’s how it is out in the country, if you want to go to school you need to move away, Father says and Asle doesn’t say anything and he thinks finally, finally, he’s leaving home, he can’t wait, he’s going to live by himself, alone, and not have to listen to Mother constantly nagging about him needing a haircut ...”

Nobel Peace Prize 2023



Narges Mohammadi
Born: 1972, Iran

“for her fight against the oppression of women in Iran and her fight to promote human rights and freedom for all”

Nobel Peace Prize 2023

– Protests against the oppression of women

In the autumn of 2022, large demonstrations broke out in Iran. People protested against the oppression of women. The protests were suppressed with great brutality.



PHOTO: AMIR SARABADANI



PHOTO: TAYMAZ VALLEY, CC BY 2.0 WIKIMEDIA COMMONS

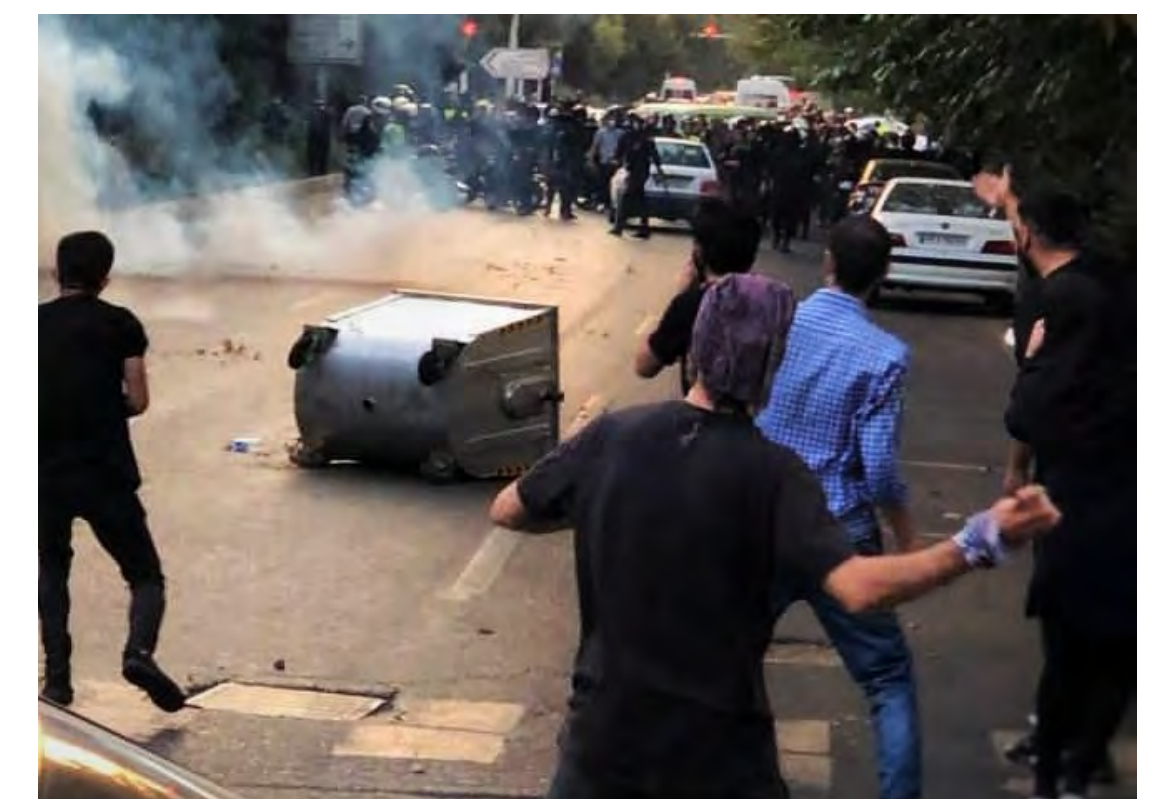


PHOTO: DARAFSH, CC BY-SA 4.0

The economic sciences prize 2023 – Women in the labour market

The prize in economic sciences is about women’s historical and contemporary roles in the labour market. This year’s prize is awarded for research that explains why there are differences in earnings between men and women.

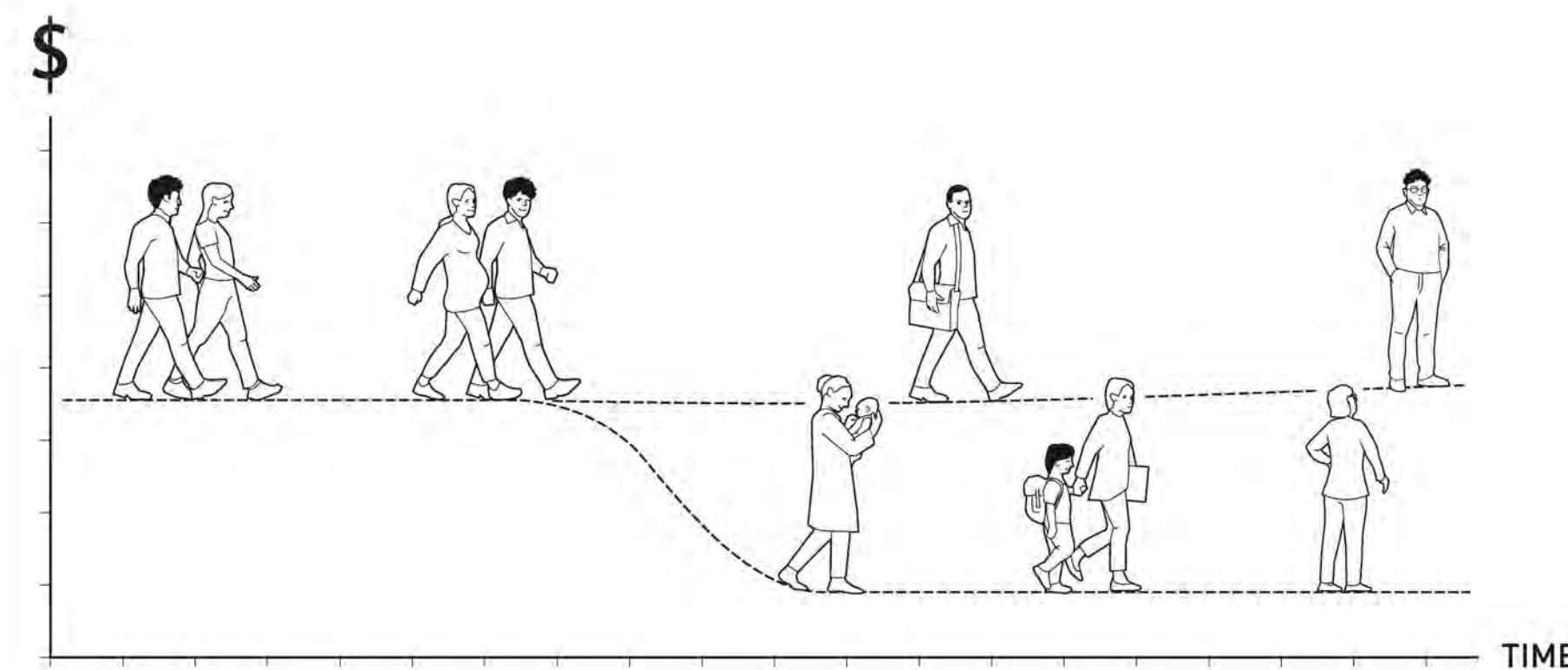


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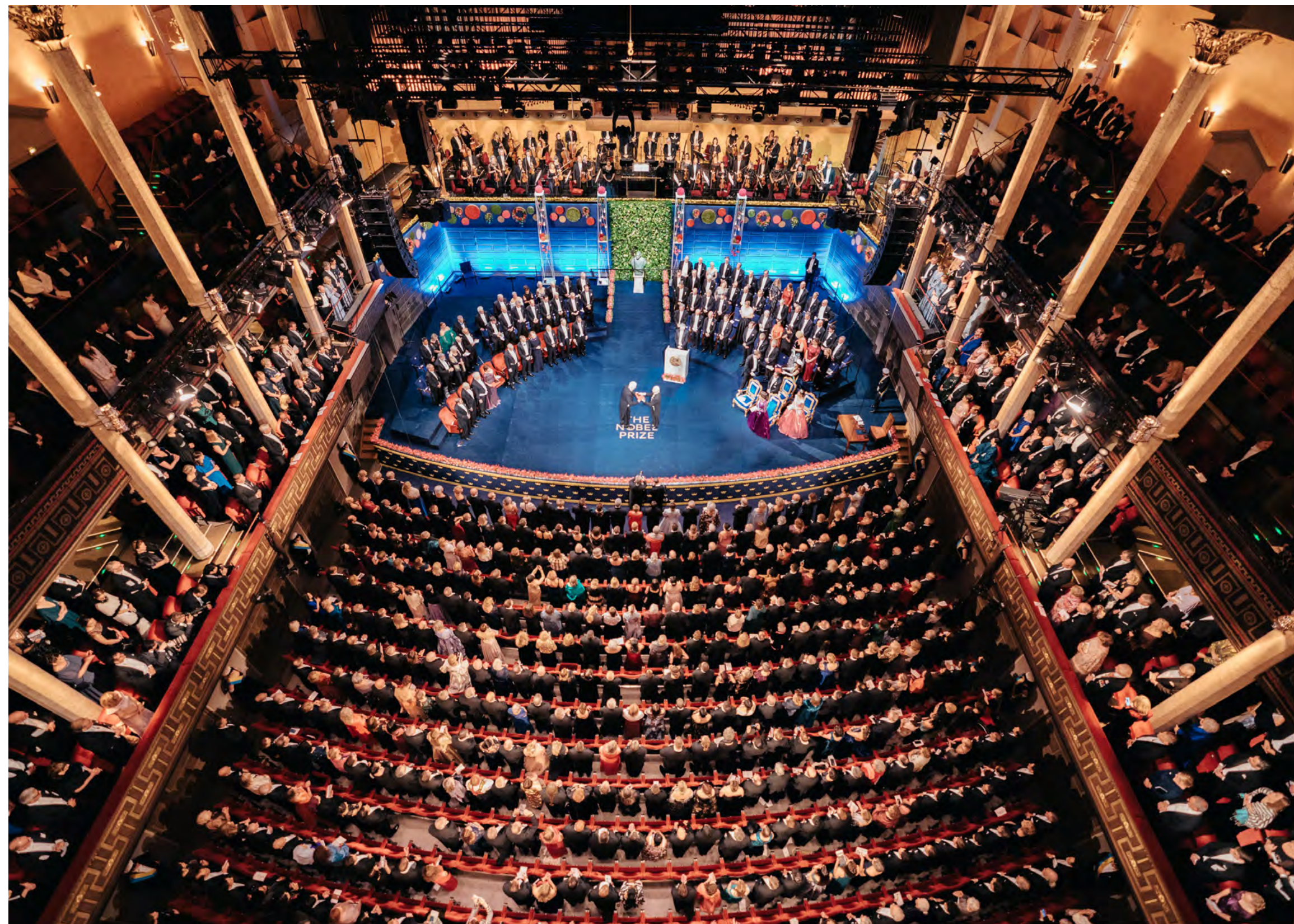
The 2023 economic sciences laureate

“for having advanced our understanding of women’s labour market outcomes”



Claudia Goldin
Born: 1946, USA

Awarding the Nobel Prize



On 10 December each year, the Nobel Prize is presented.

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FOR THE GREATEST
BENEFIT TO
HUMANKIND

Nobel Prize lessons