

# Nobel laureates

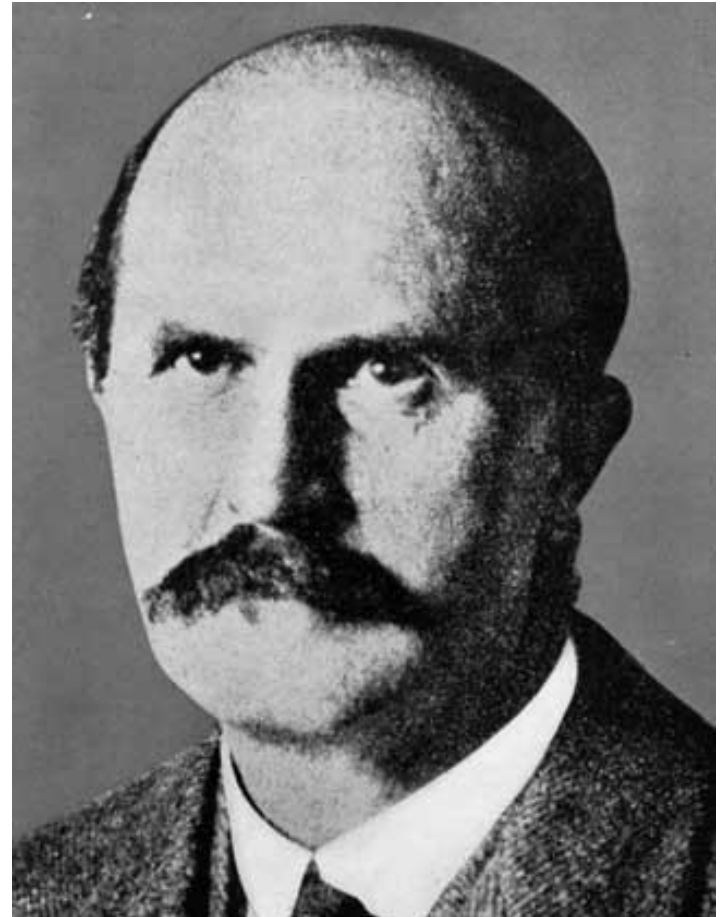


**World Top 10 - Nobel Prize Winner Countries In Physics**

<b>Country</b>	<b>Physics Prizes</b>
USA	73
Germany	21
UK	21
France	12
Netherlands	8
Russia	7
Japan	4
Sweden	4
Austria	3
Denmark	3

# Sir William Henry Bragg (2 July 1862 – 10 March 1942)

He invented the X-ray spectrometer and with his son, William Lawrence Bragg, founded the new science of X-ray analysis of crystal structure. Their volume, *X-Rays and Crystal Structure* (1915), had reached a fifth edition 10 years later.



# Sir Owen Willans Richardson (26 April 1879 - 15 February 1959)

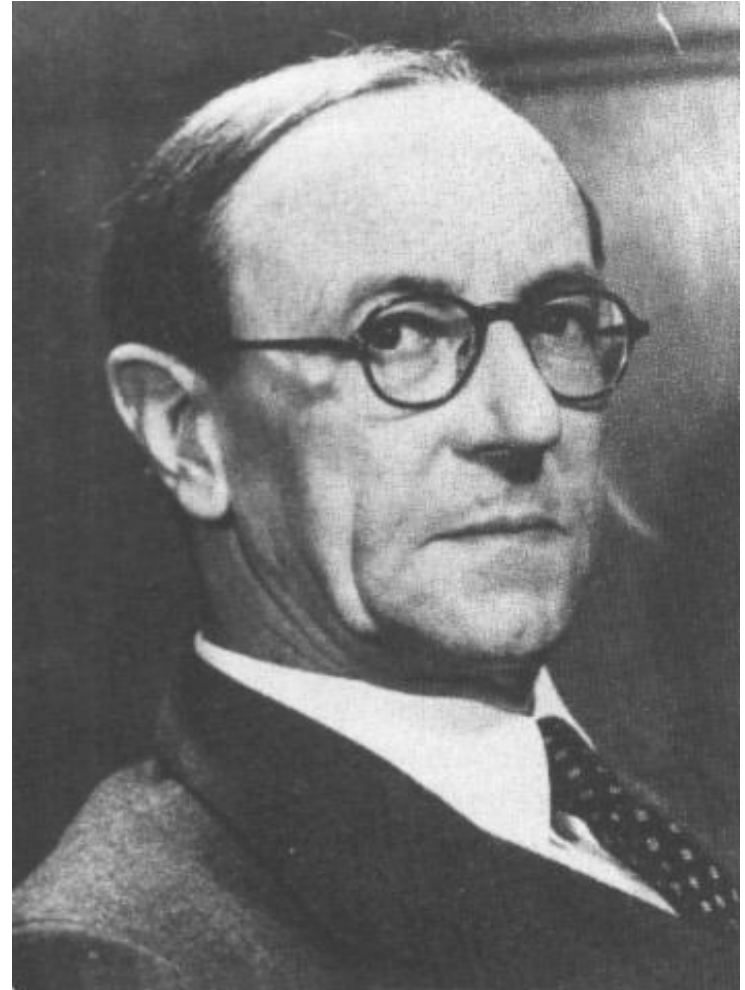
He researched the photoelectric effect, the gyromagnetic effect, the emission of electrons by chemical reactions, soft X-rays, and the spectrum of hydrogen.



# Sir James Chadwick

(20 October 1891 – 24 July 1974)

In 1932, he made a fundamental discovery in the domain of nuclear science: he discovered the particle in the nucleus of an atom that became known as the neutron because it has no electric charge.



**Sir Edward Victor Appleton**  
**(6 September 1892 – 21 April**  
**1965)**

**Nobel prize  
for his  
investigations  
of the physics  
of the upper  
atmosphere  
especially for  
the discovery  
of the  
so-called  
Appleton  
layer.**



**(30 September 1905 – 8 August  
1996)**

**His  
accomplishmen  
ts include  
explaining  
theoretically the  
effect of light on  
a photographic  
emulsion (see  
latent image)  
and outlining  
the transition of  
substances from  
metallic to  
nonmetallic  
states (Mott  
transition)**

