

The Transactinides

THE TRANSACTINIDES ARE ALL SYNTHETIC, RADIOACTIVE ELEMENTS, WHICH ARE UNSTABLE AND GENERALLY ONLY EXIST FOR FRACTIONS OF A SECOND

104 Rf Rutherfordium	105 Db Dubnium	106 Sg Seaborgium	107 Bh Bohrium	108 Hs Hassium	109 Mt Meitnerium	110 Ds Darmstadtium	111 Rg Roentgenium	112 Cn Copernicium	113 Uut Ununtrium	114 Fl Flerovium	115 Uup Ununpentium	116 Lv Livermorium	117 Uus Ununseptium	118 Uuo Ununoctium
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DATES OF DISCOVERY OF THE TRANSACTINIDES



THE TRANSACTINIDES ARE ALL
RADIOACTIVE

COUNTRY OF DISCOVERY



INCLUDES US/RUSSIA JOINT DISCOVERIES

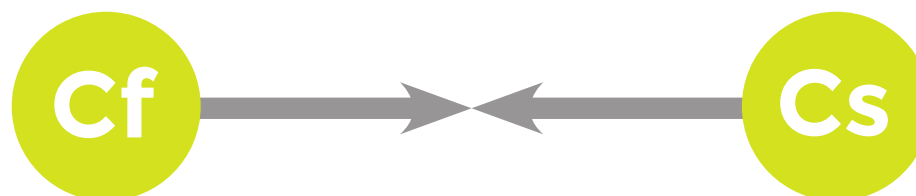
28 HOURS

HALF LIFE OF THE MOST
STABLE TRANSACTINIDE
ISOTOPE, **DUBNIUM-268**

MOST TRANSACTINIDES
**EXIST FOR ONLY
FRACTIONS OF A SECOND**

ELEMENTS 113, 115, 117 & 118
HAVE YET TO HAVE THEIR
DISCOVERIES CONFIRMED

NAMES SUCH AS
UNUNOCTIUM
ARE **PLACEHOLDER NAMES**
UNTIL AN OFFICIAL
NAME IS CHOSEN



THE TRANSACTINIDES ARE
FORMED BY COLLIDING ATOMS
OF DIFFERENT ELEMENTS

ELEMENTS ABOVE UNUNOCTIUM
ARE PROPOSED TO EXIST BUT AS
YET HAVE NOT BEEN DISCOVERED

TRANSACTINIDES NAMED AFTER FAMOUS SCIENTISTS



RUTHERFORDIUM
ERNEST RUTHERFORD

WON A NOBEL PRIZE FOR WORK ON RADIOACTIVITY & DEVELOPED THE ORBITAL THEORY OF THE ATOM



SEABORGIUM
GLENN SEABORG

WON A NOBEL PRIZE FOR HIS WORK ON THE SYNTHESIS & CHEMISTRY OF TEN OF THE TRANSURANIUM ELEMENTS



BOHRIUM
NIELS BOHR

WON A NOBEL PRIZE FOR DEVELOPING THE BOHR MODEL OF THE ATOM, WITH ELECTRONS ORBITING THE NUCLEUS



MEITNERIUM
LISE MEITNER

WORKED ON RADIOACTIVITY & NUCLEAR PHYSICS, AND WAS PART OF THE TEAM THAT DISCOVERED NUCLEAR FISSION



ROENTGENIUM
WILHEM RÖNTGEN

WON THE FIRST NOBEL PRIZE IN PHYSICS IN 1901 FOR HIS DISCOVERY OF X-RAYS (RÖNTGEN RAYS)



COPERNICIUM
NICOLAUS COPERNICUS

MATHEMATICIAN & ASTRONOMER WHO FORMULATED A HELIOCENTRIC MODEL OF THE UNIVERSE