

# Helion

## Fúzió más megközelítése

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X89O8X

Széchenyi István Egyetem

2023. Május 9.

# Tartalom

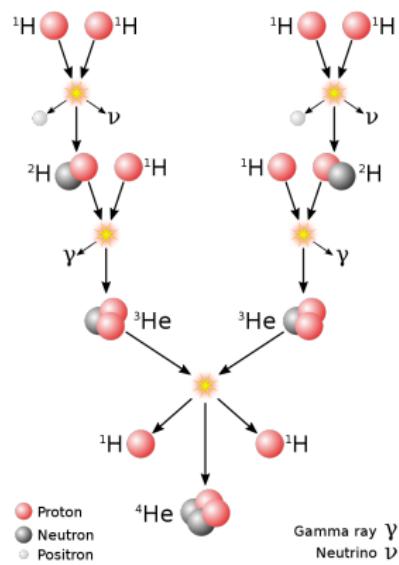
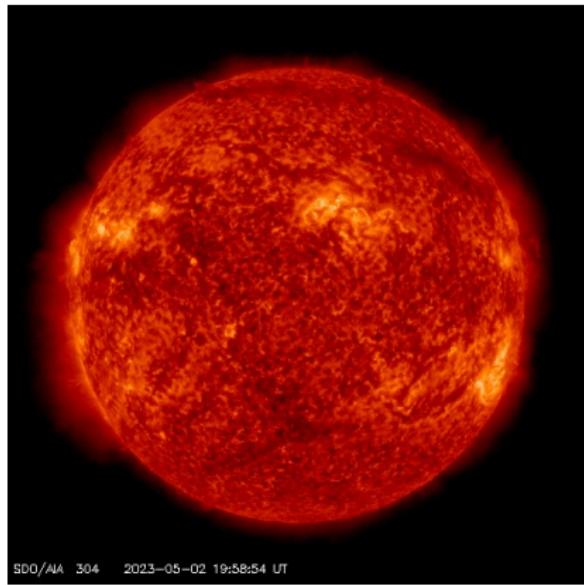
## 1 Bevezetés

- Fúzió
- Tokamak

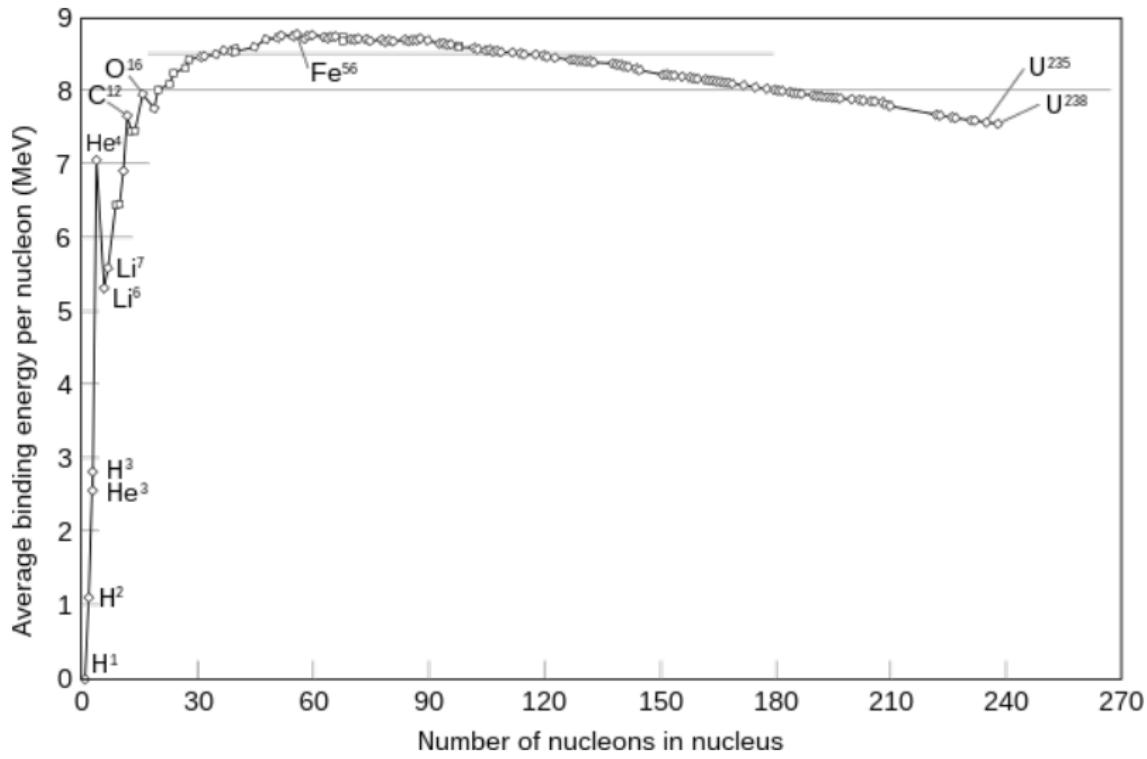
## 2 Helion

- Működési elv
- Fúzió
- Áram termelés

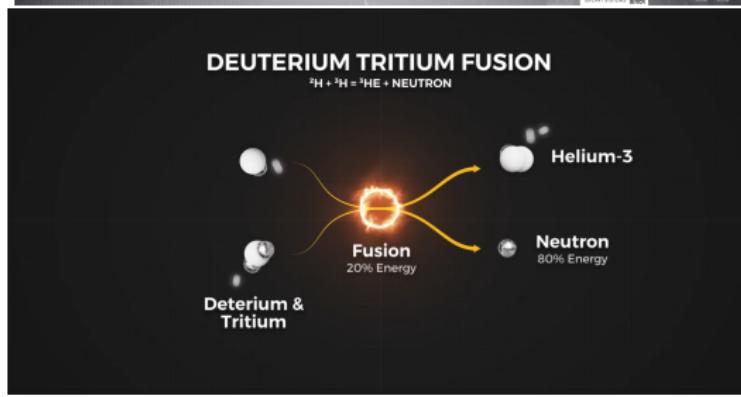
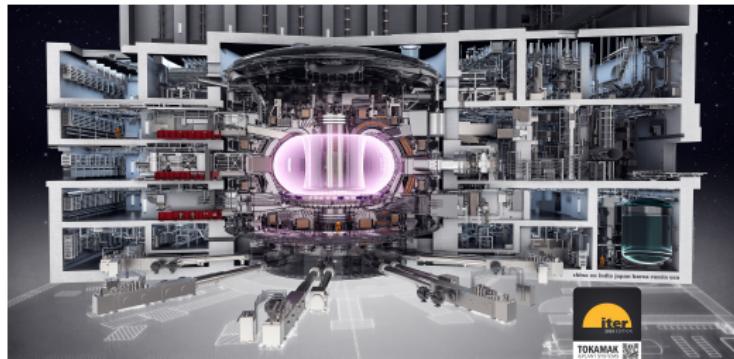
# Bevezetés



# Fúzió



# Tokamak



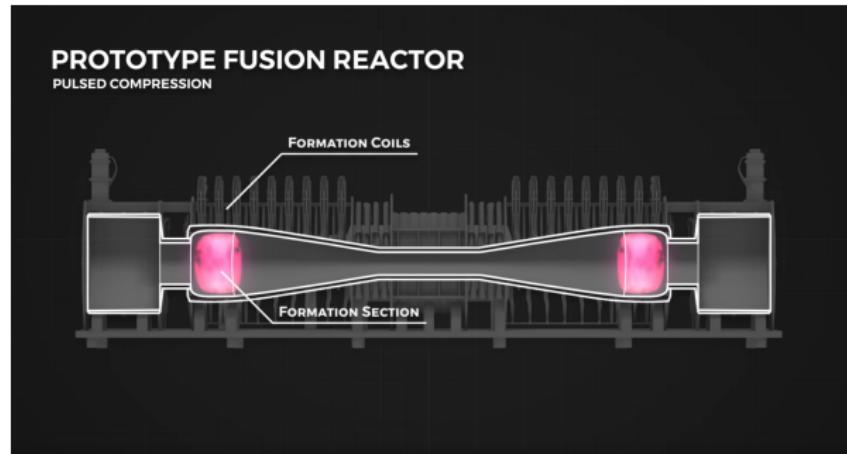
# Helion

- Magán cég az USA-ban
- Alapítvás éve: 2013
- CEO: Dr. David Kirtley
- Legújabb prototípus: Trenta



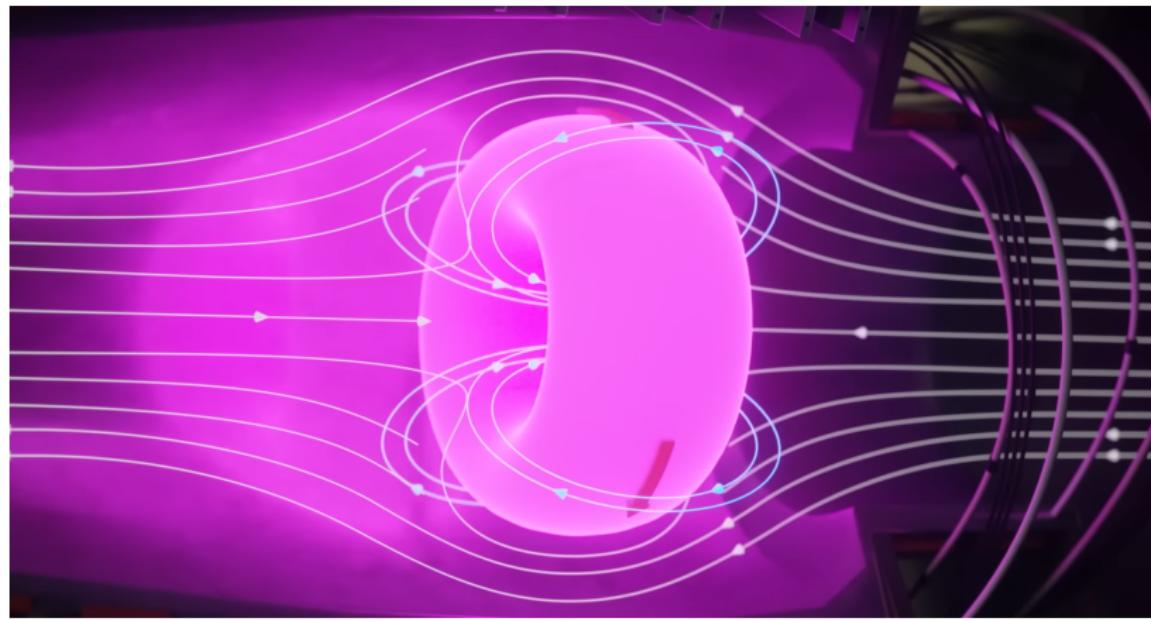
# Működési elv

- Elektromágnes
- Field-Reverse Configuration
- Tekercsenként  $10^5 A$
- Elérő hőmérséklet:  $10^8 K$

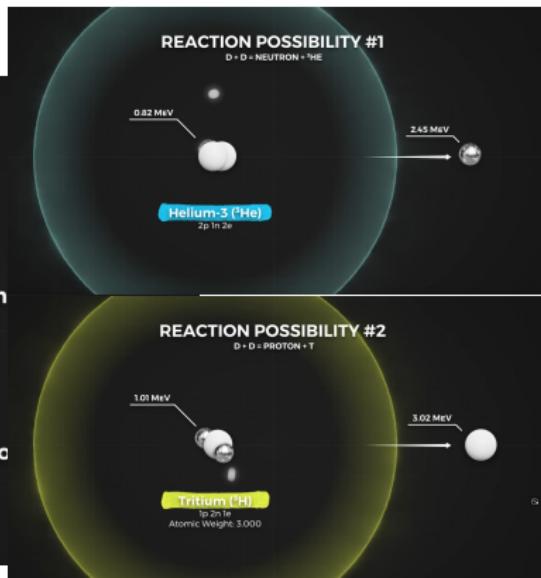
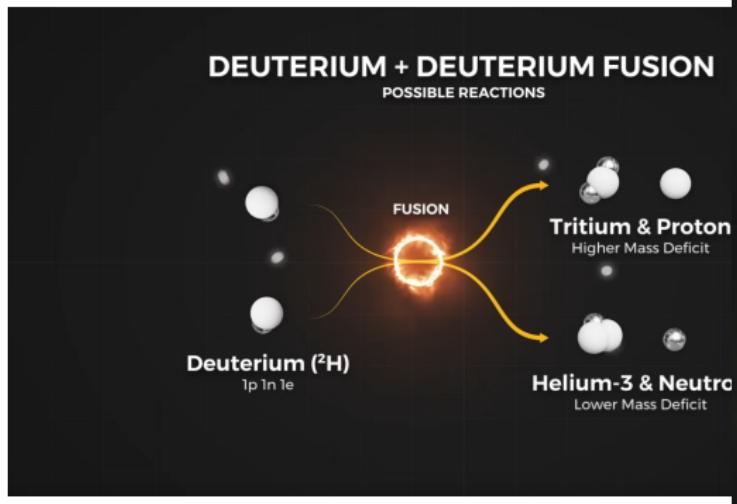


# Field-Reverse Configuration

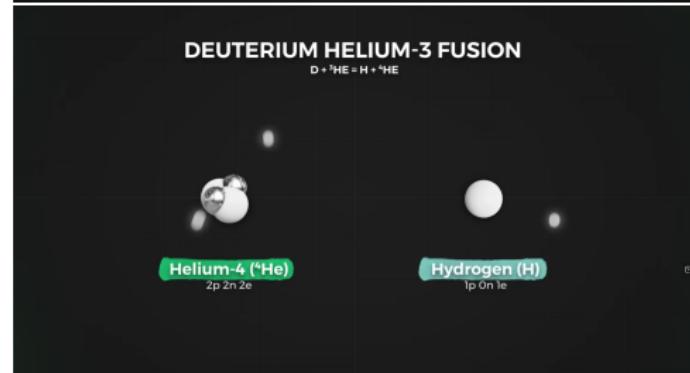
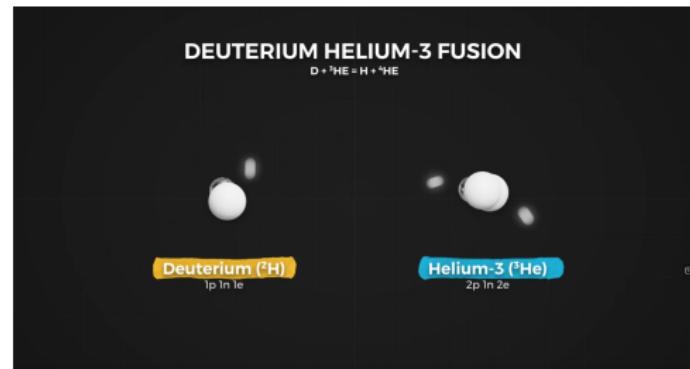
- Tórusz alak elérése elektromágnesekkel
- Plazma egybetartása



# Deuterium + Deuterium



# Deuterium + Helium-3



# Áram termelés