

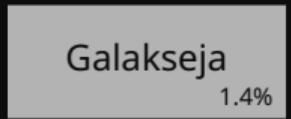
Pimeä aine uuden sukupolven ilmaisimissa

Sebastian Sassi

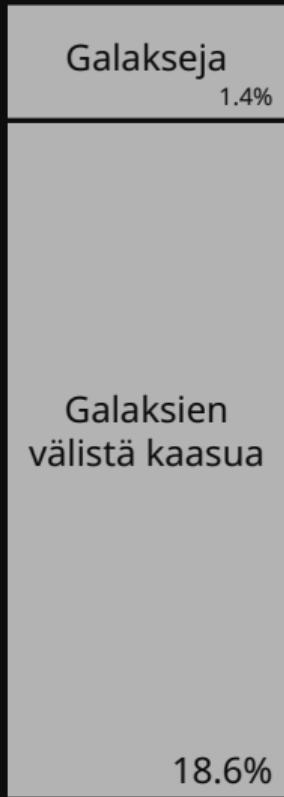
Helsingin Yliopisto

6.3.2025

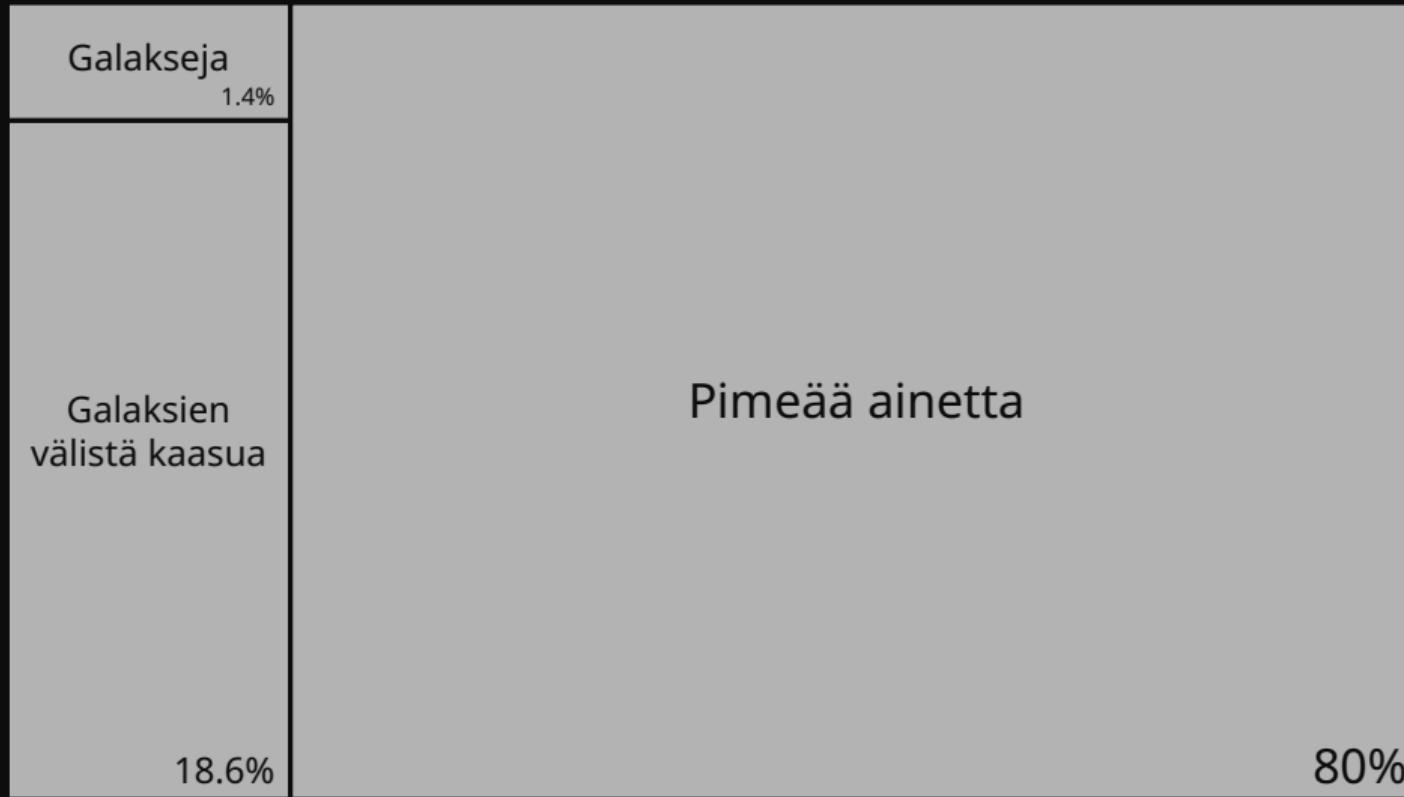
Maailankaikkeuden koostumus



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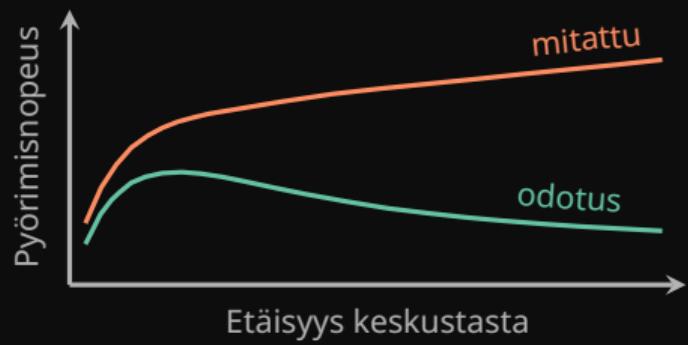
Maailankaikkeuden koostumus



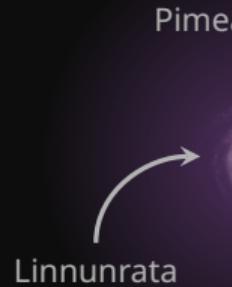
Galaksien pyörimisnopeudet



Galaksien pyörimisnopeudet



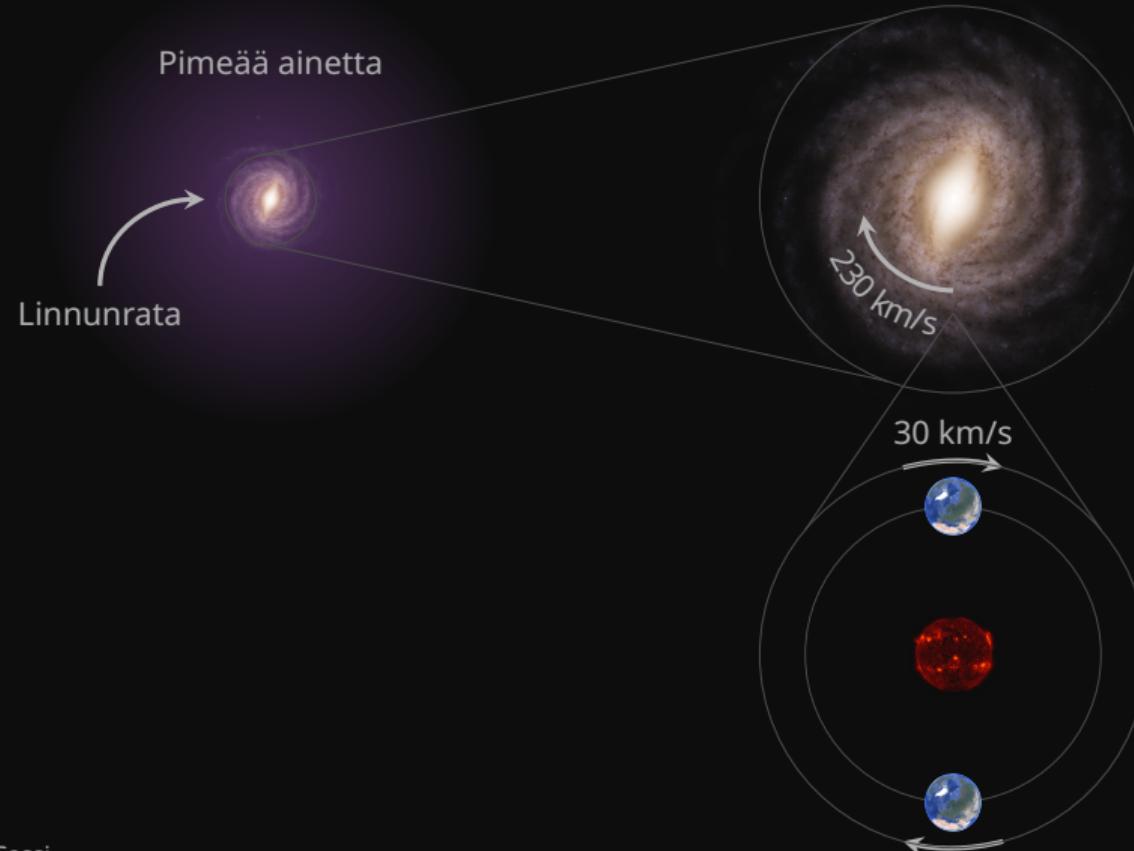
Pimeä aine Maan läheisyydessä



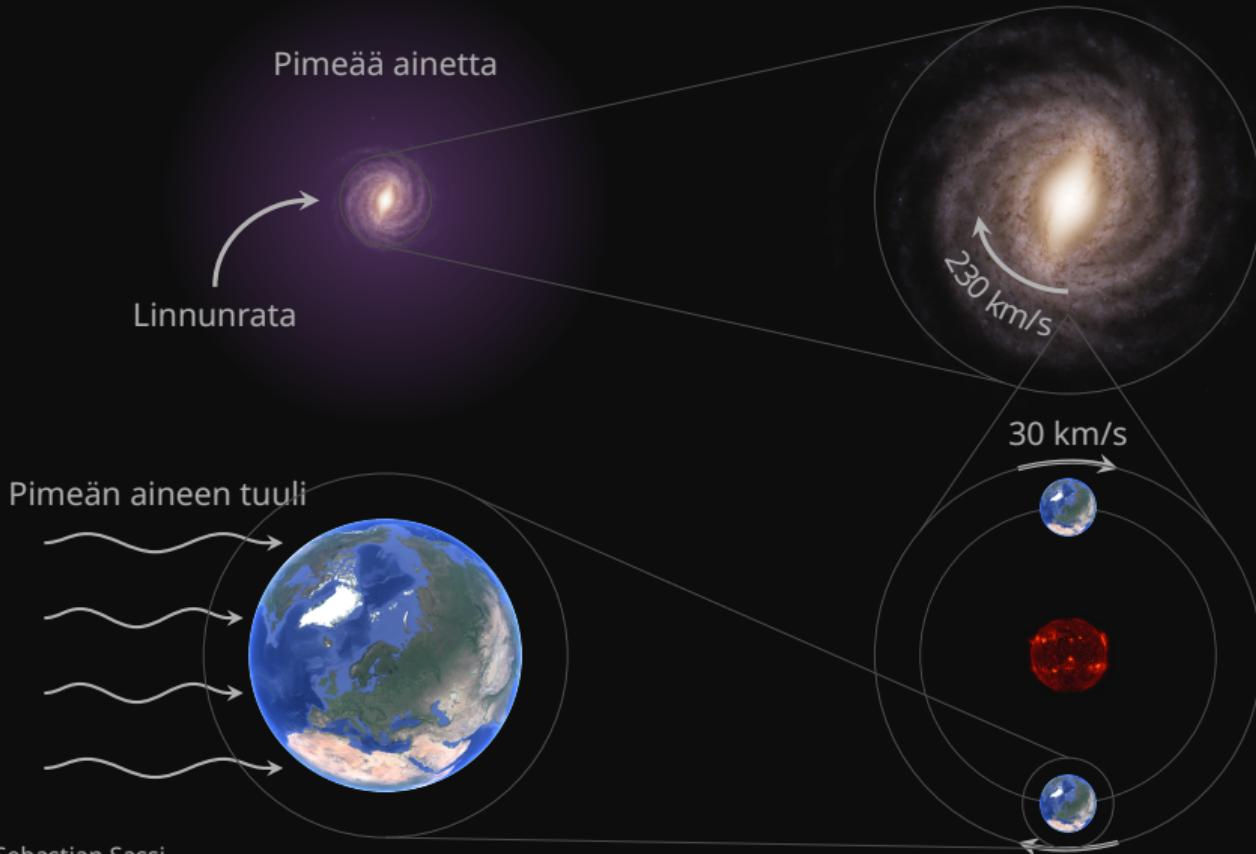
Pimeää aine Maan läheisyydessä



Pimeää aine Maan läheisyydessä



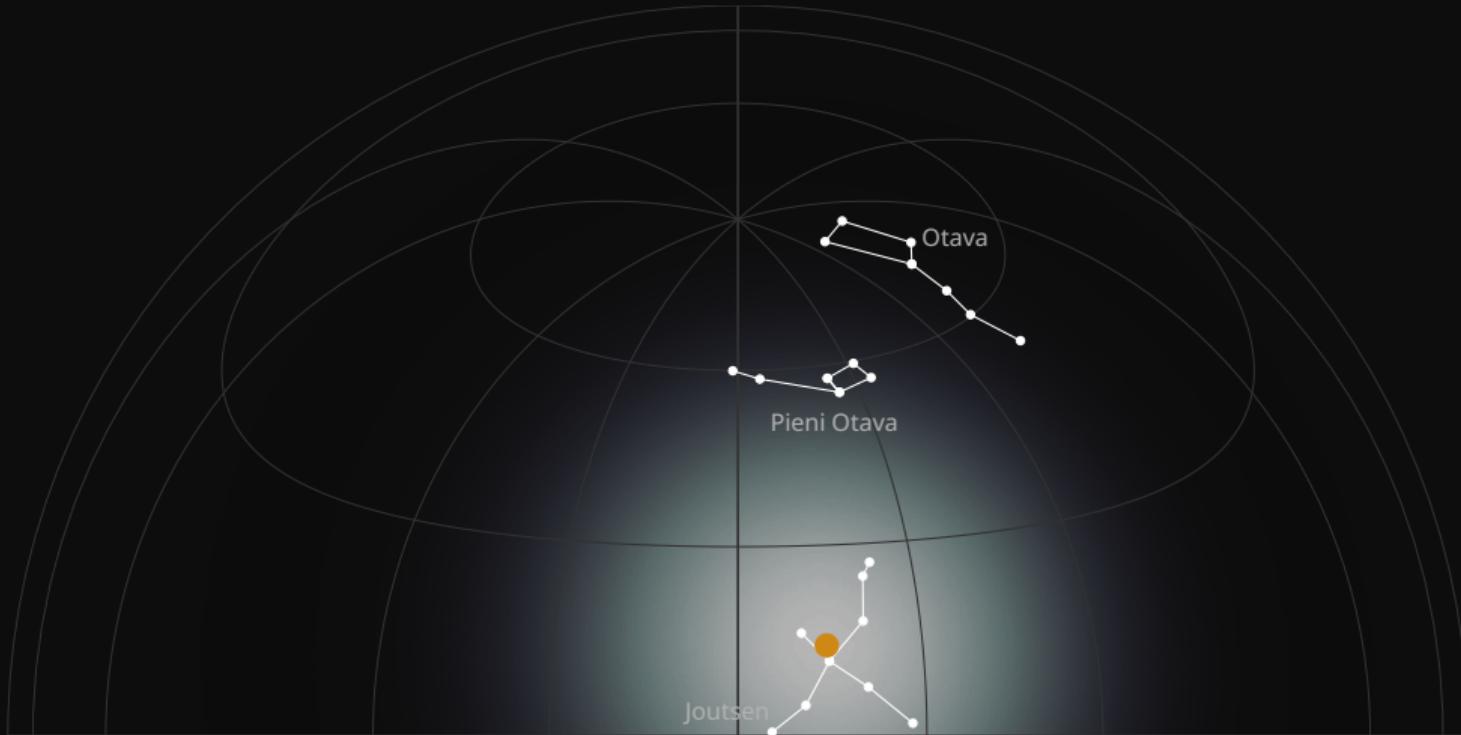
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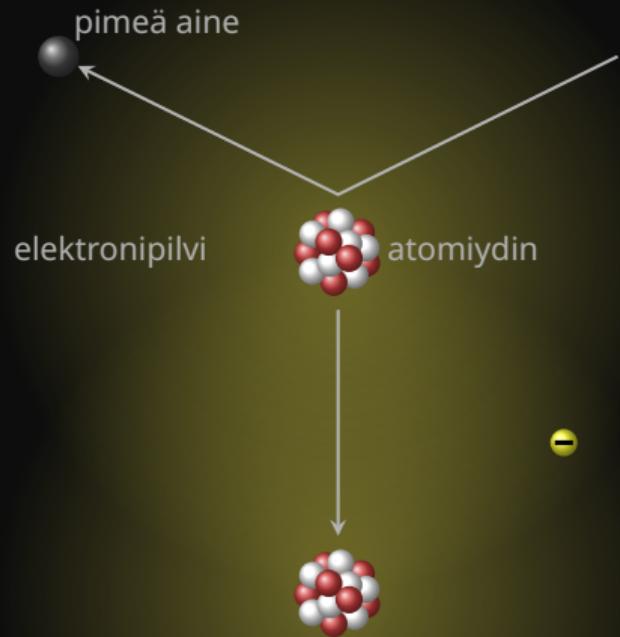
Pimeän aineen tuuli



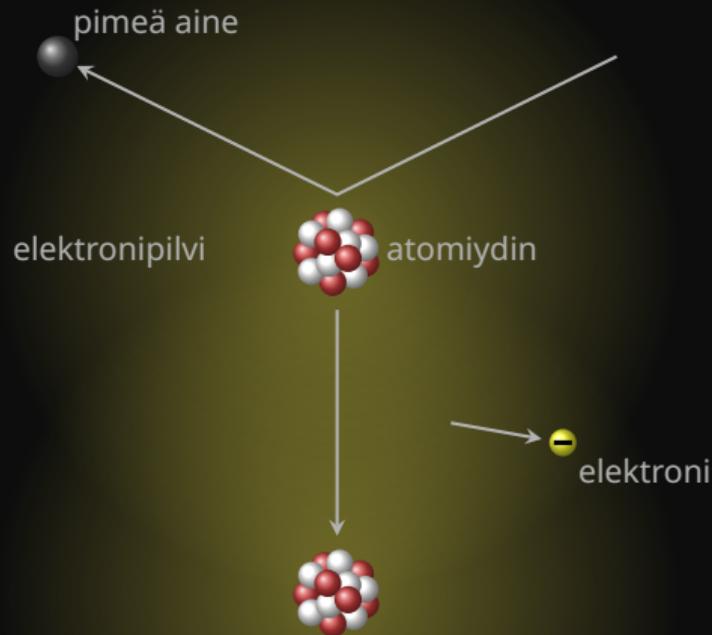
Pimeän aineen tuuli



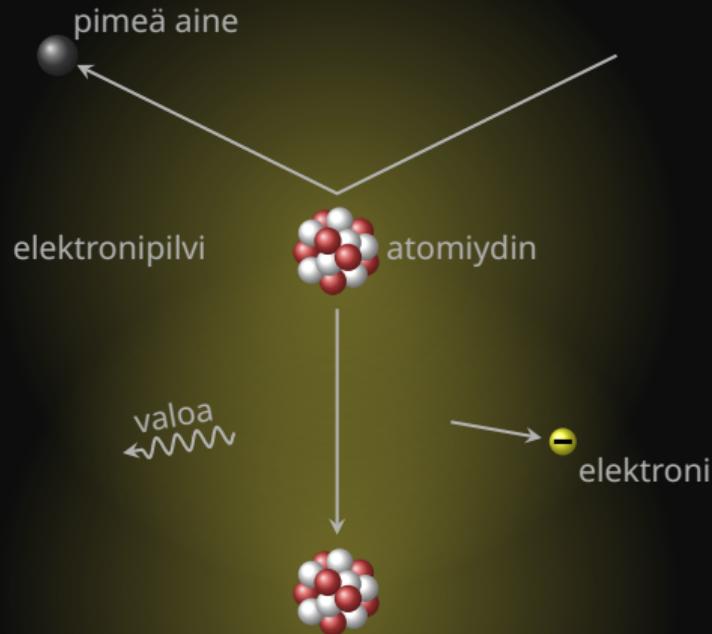
Pimeän aineen sironta



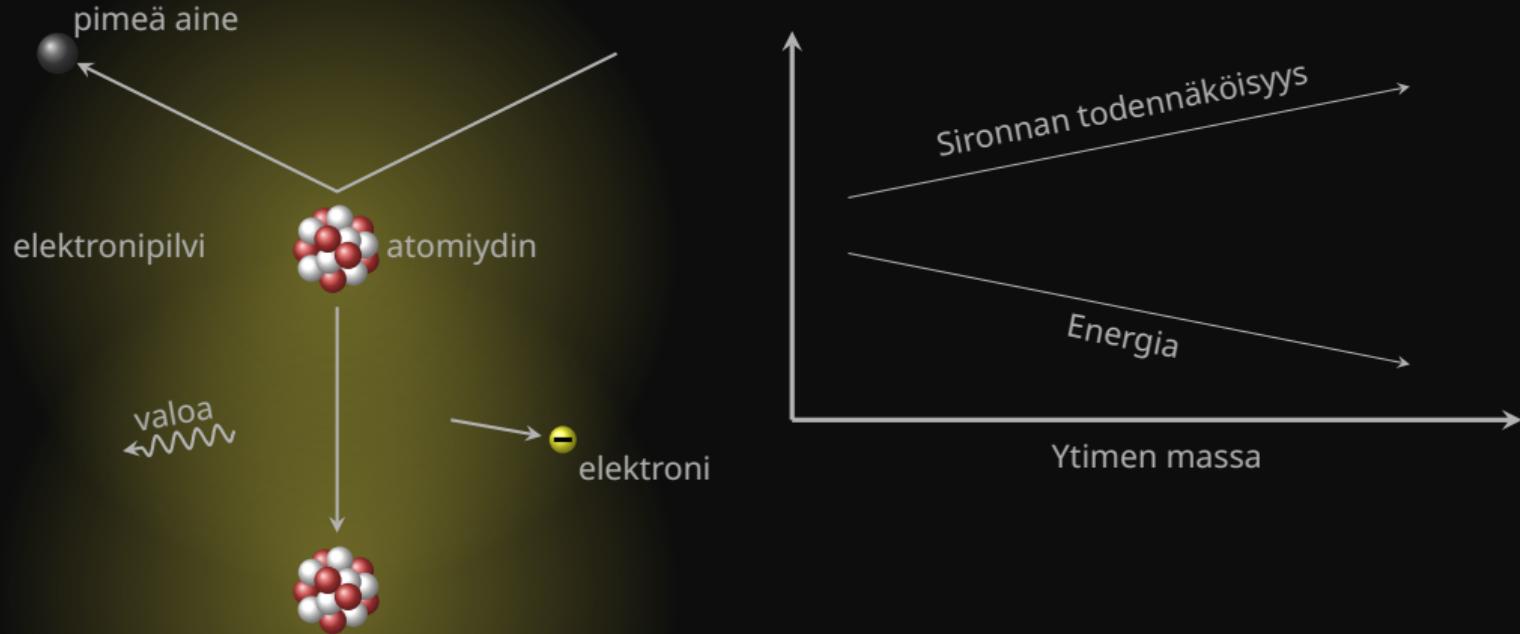
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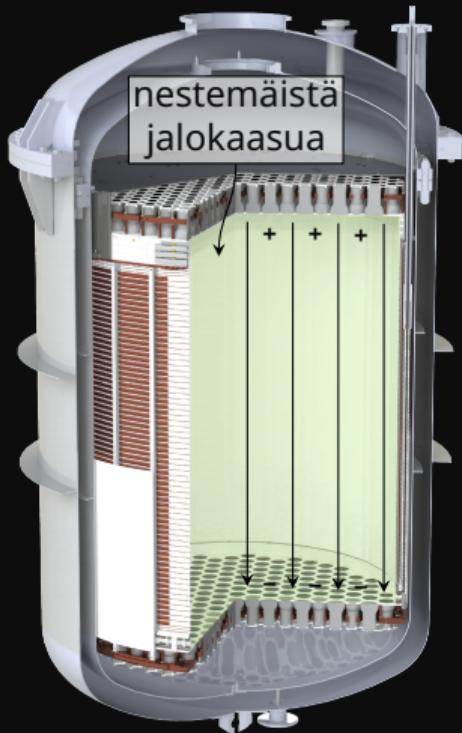
Pimeän aineen sironta



Pimeän aineen sironta

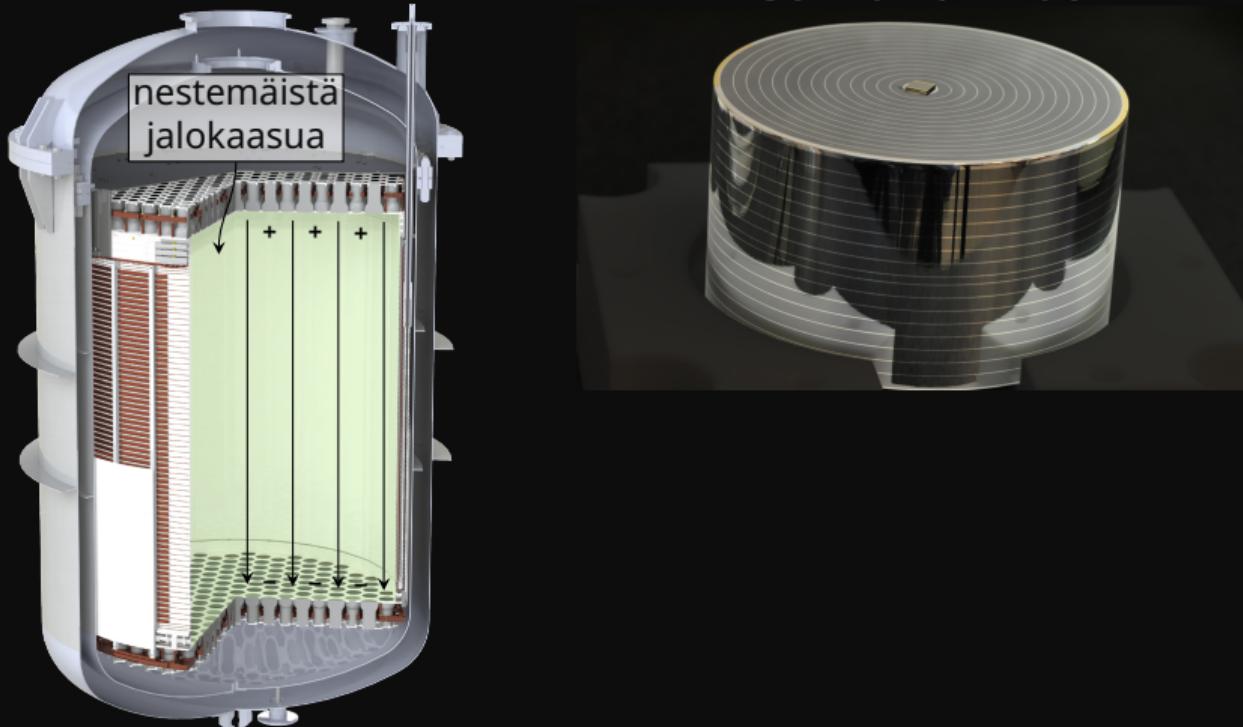


Pimeän aineen havaitseminen



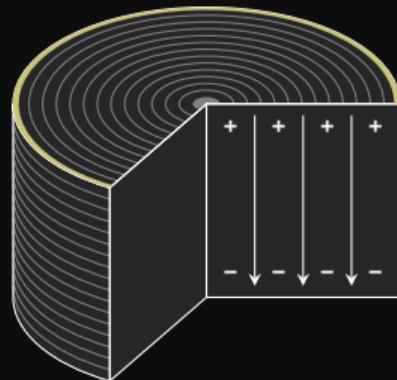
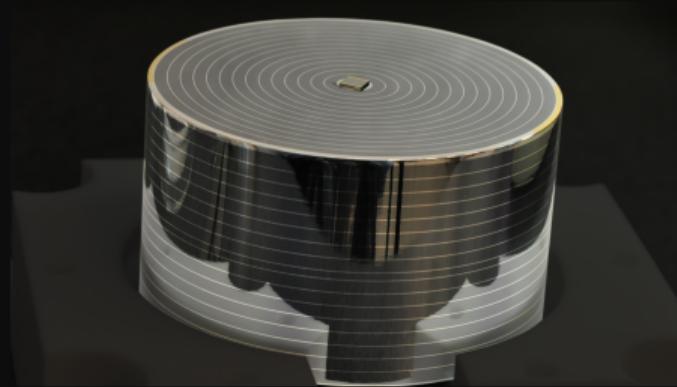
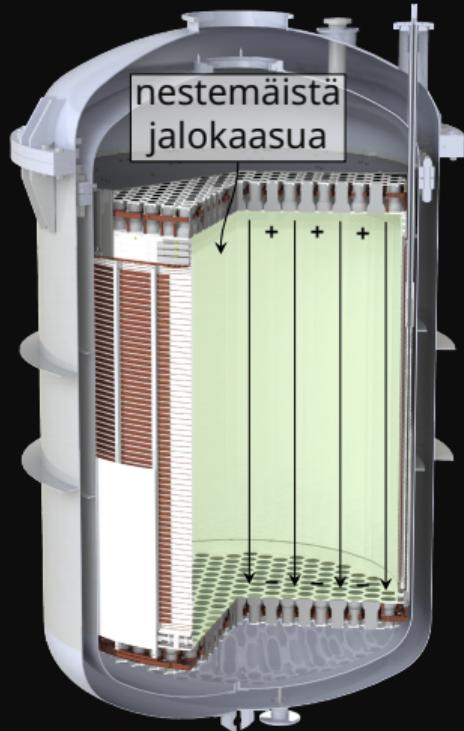
Pimeän aineen havaitseminen

Germaniumkide

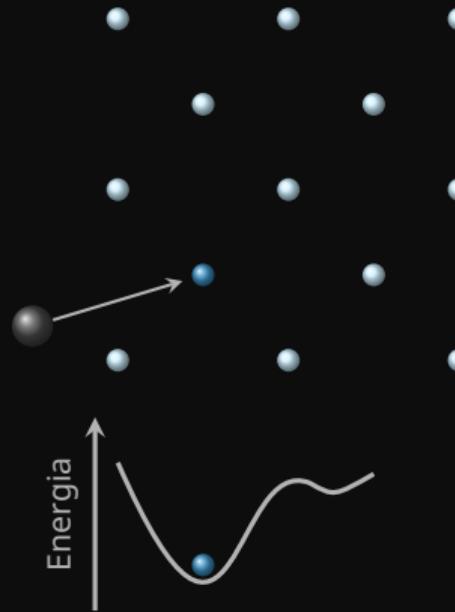


Pimeän aineen havaitseminen

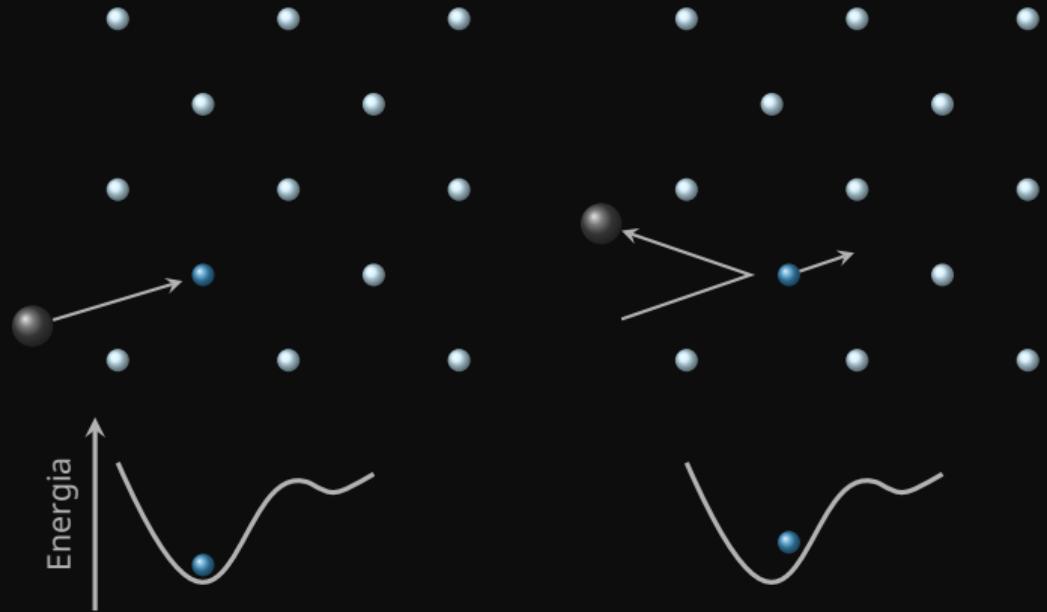
Germaniumkide



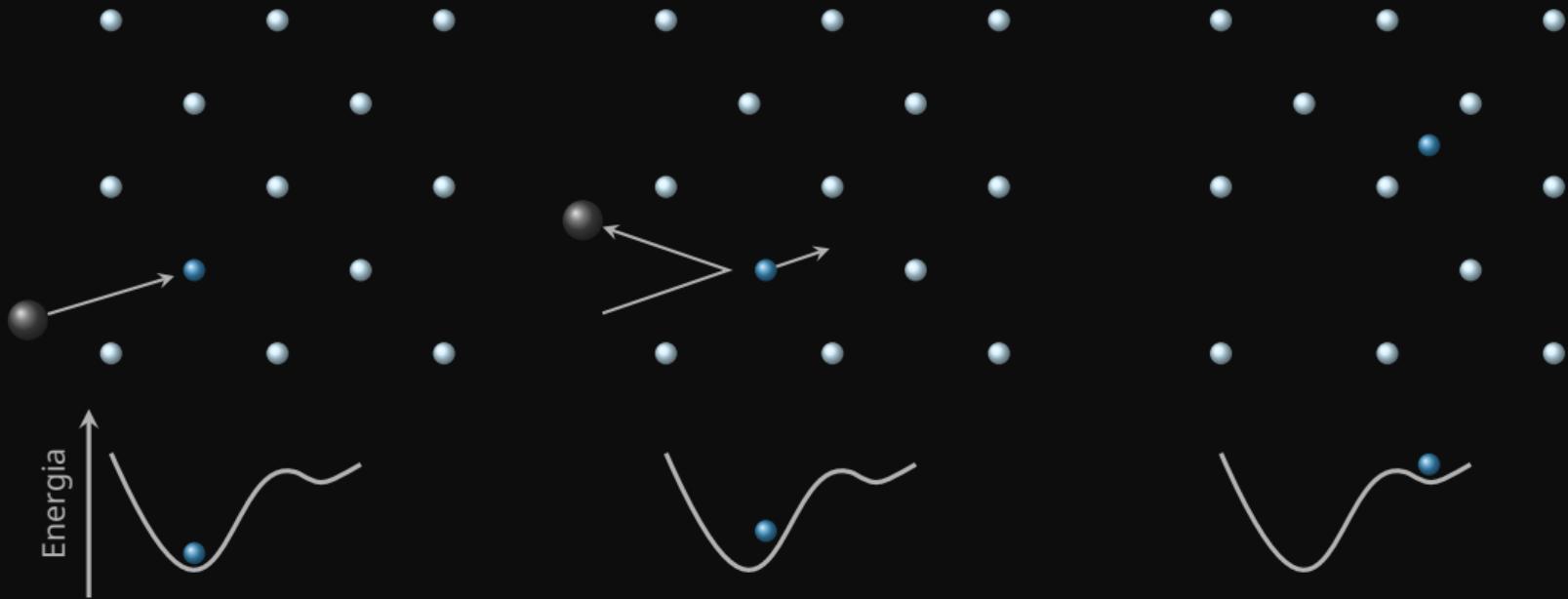
Kidevirheet



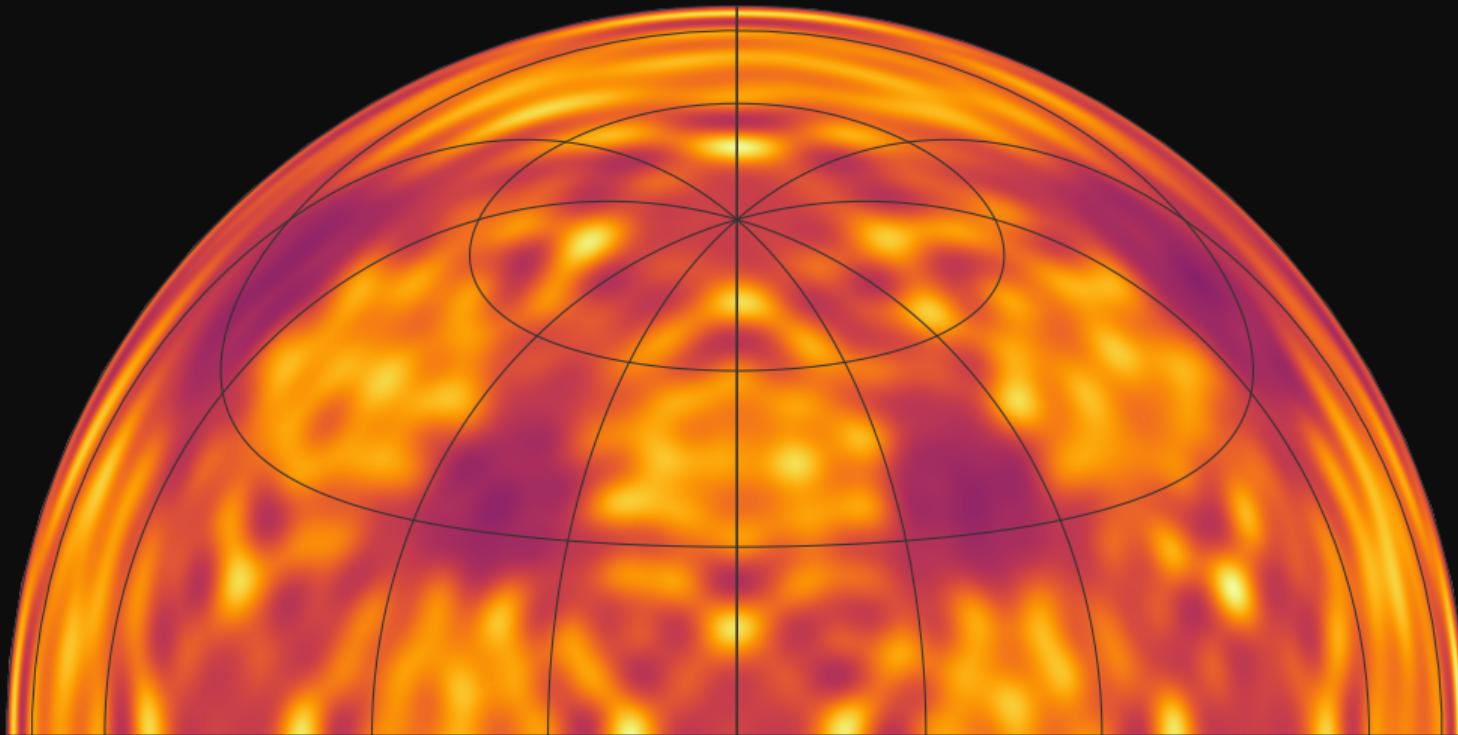
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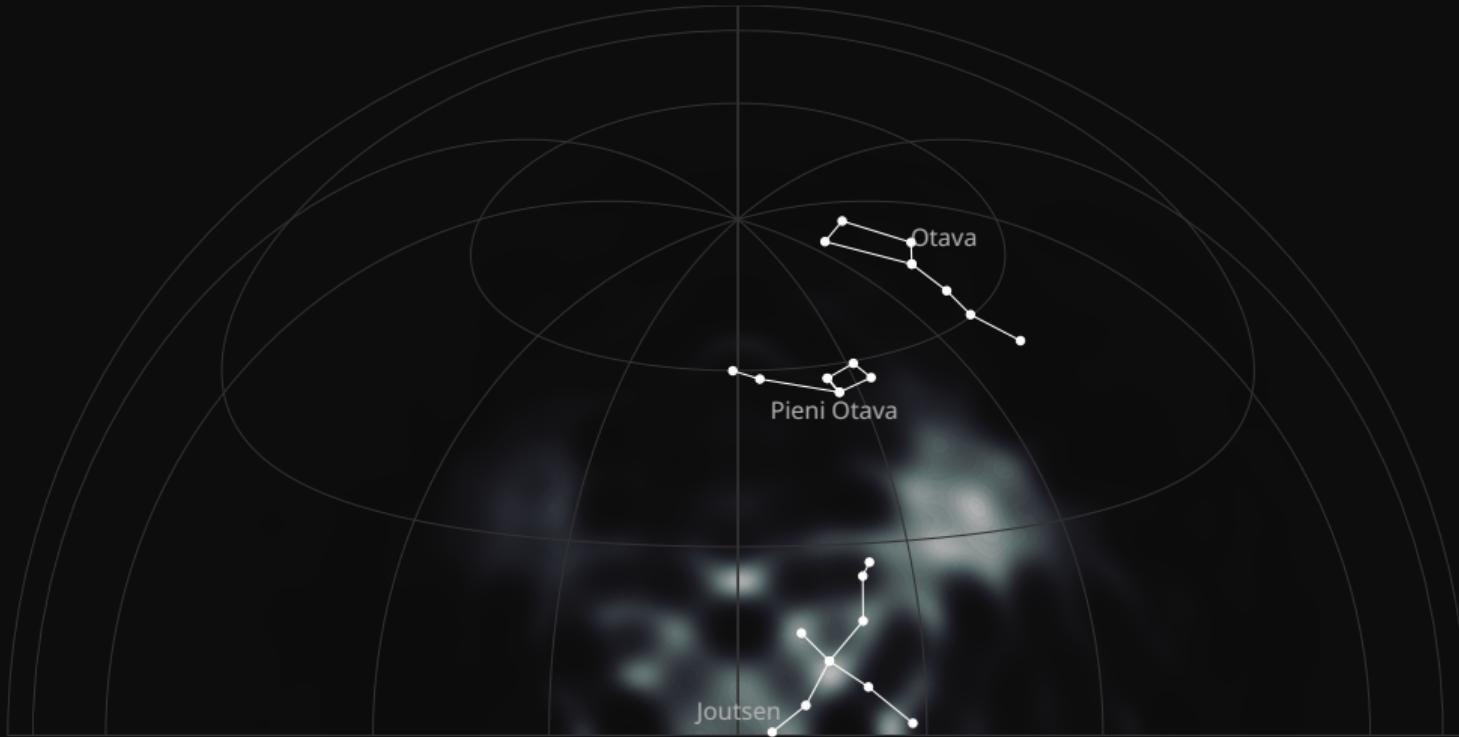
Kidevirheet



Virhe-energian suuntariippuvuus



Pimeän aineen tuuli kiteessä



Pimeän aineen tuuli kiteessä



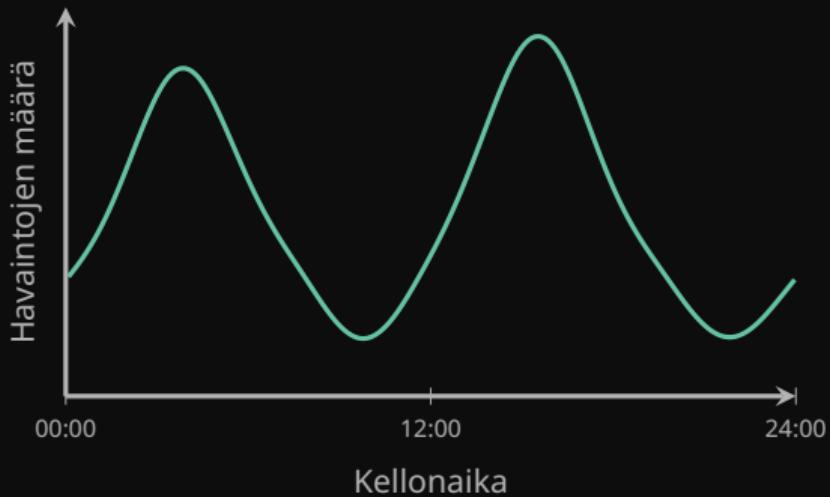
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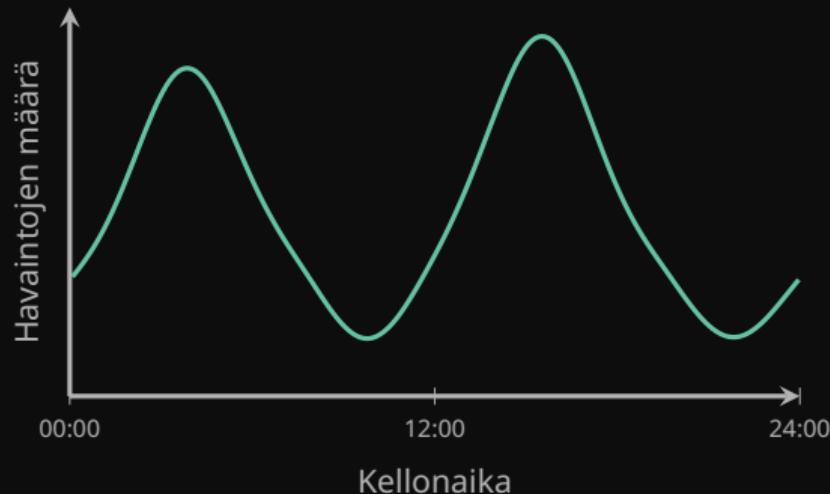
Pimeän aineen tuuli kiteessä



Päivittäinen vaihtelu



Päivittäinen vaihtelu



Avainkysymyksiä:

Mitä päivittäinen vaihtelu kertoo pimän aineen vuorovaikutuksista/jakaumasta?

Auttaako päivittäinen vaihtelu pimeän aineen löytämisessä?