

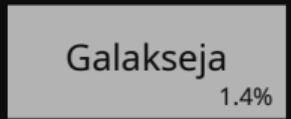
Pimeä aine uuden sukupolven ilmaisimissa

Sebastian Sassi

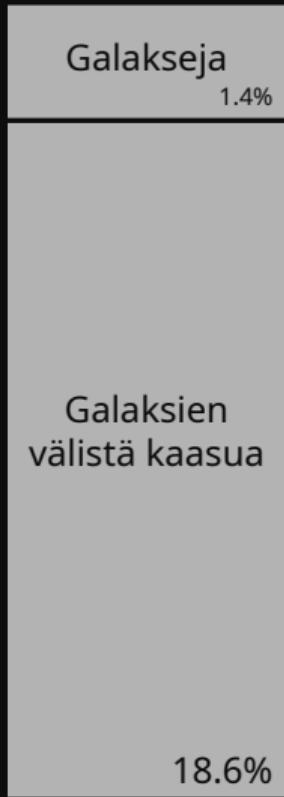
Helsingin Yliopisto

6.3.2025

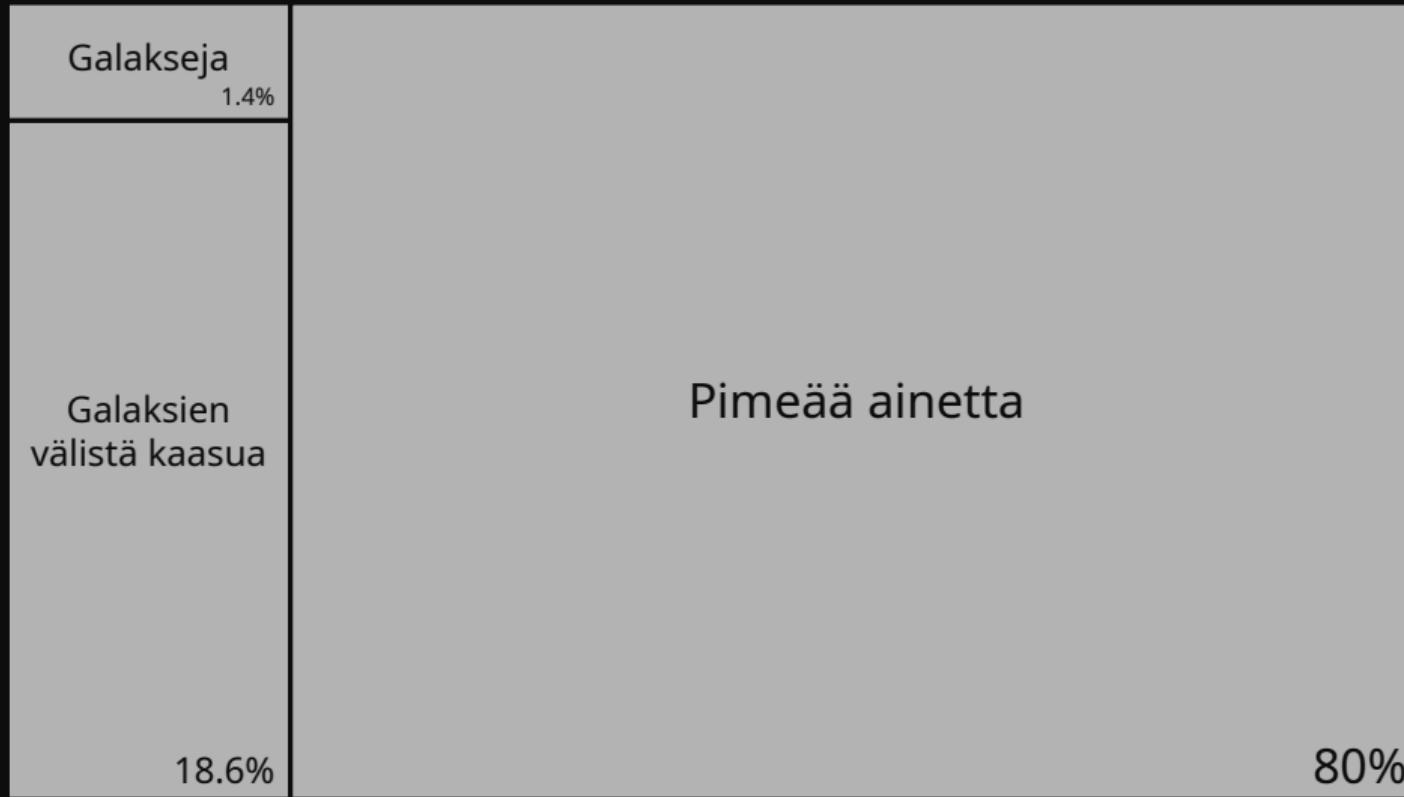
Maailankaikkeuden koostumus



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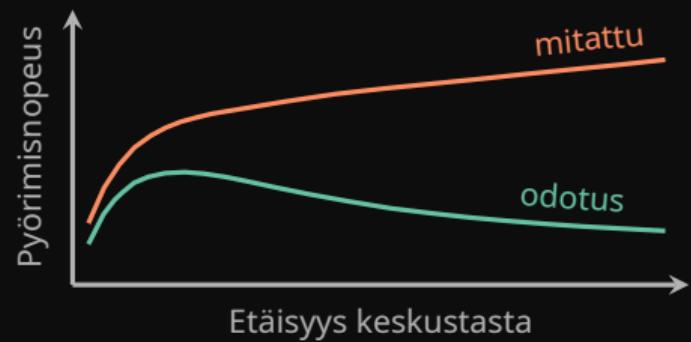
Maailankaikkeuden koostumus



Galaksien pyörimisnopeudet



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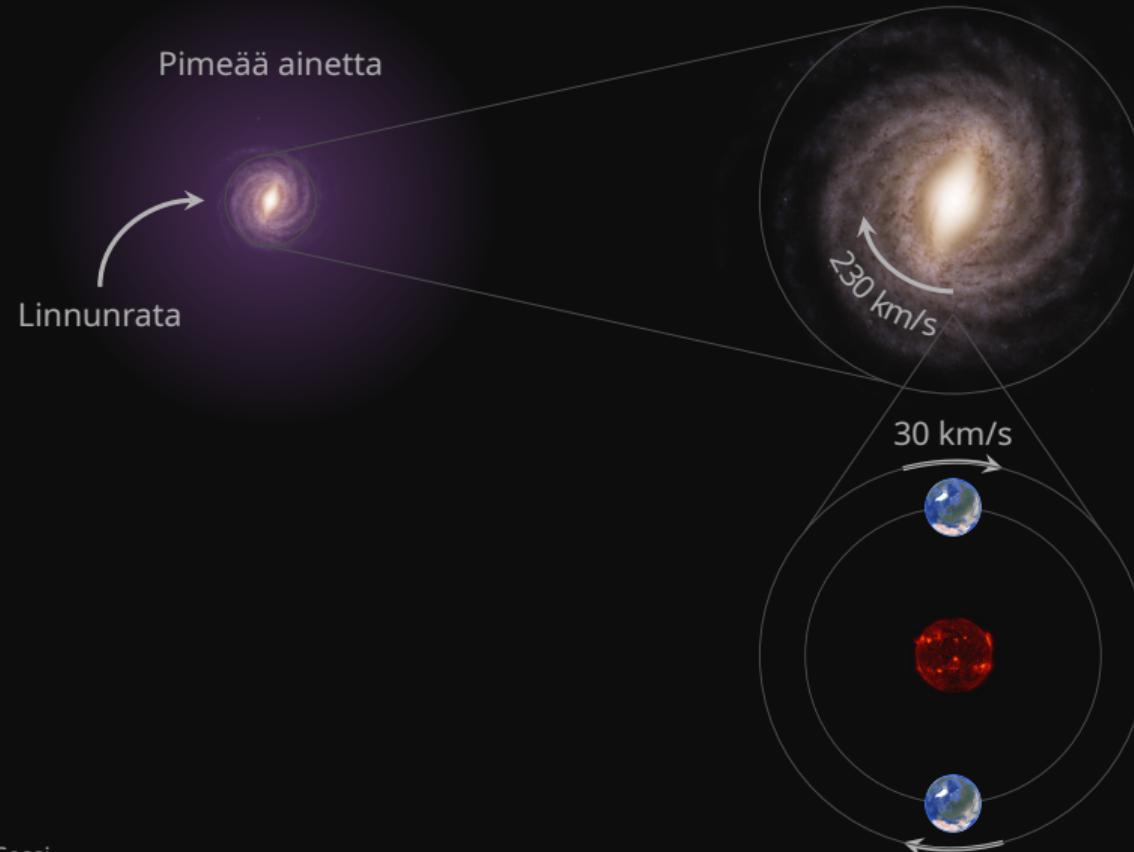
Pimeä aine Maan läheisyydessä



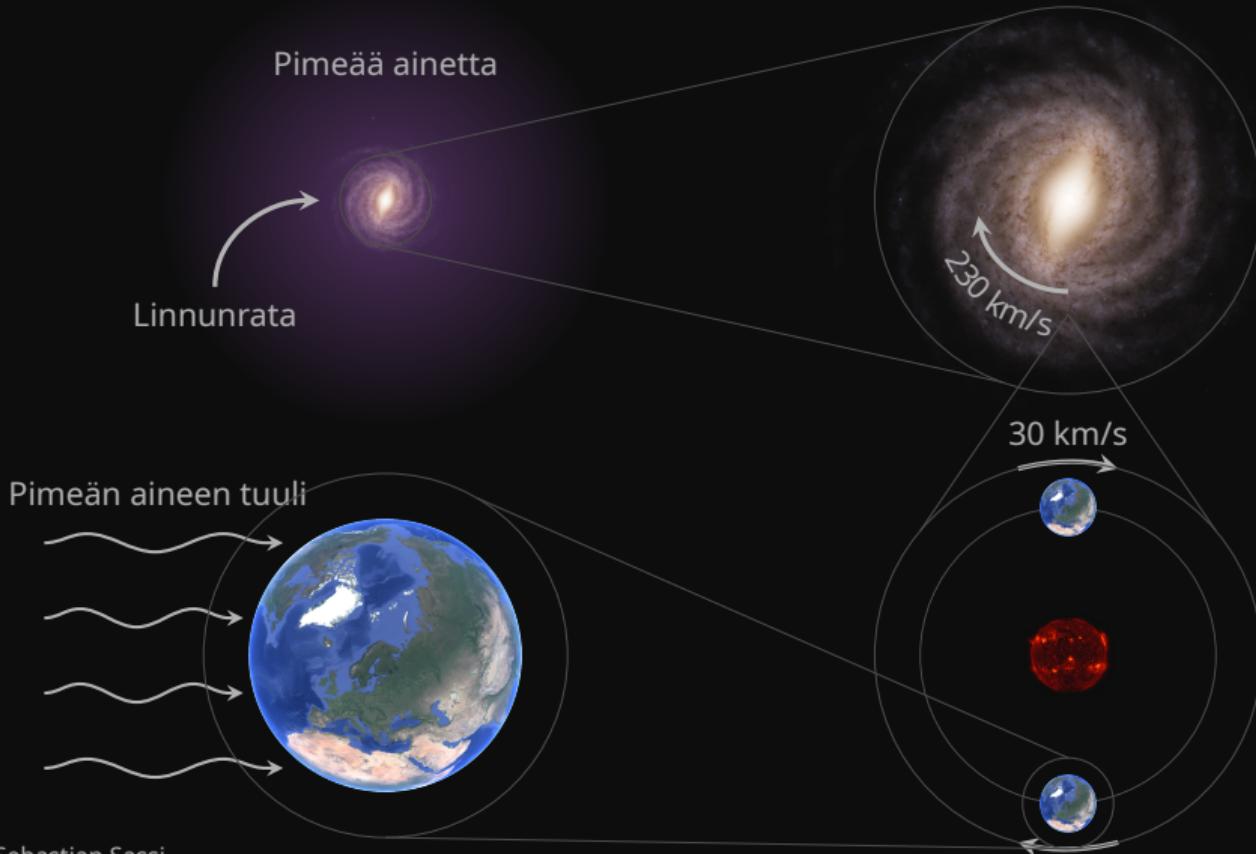
Pimeää aine Maan läheisyydessä



Pimeä aine Maan läheisyydessä



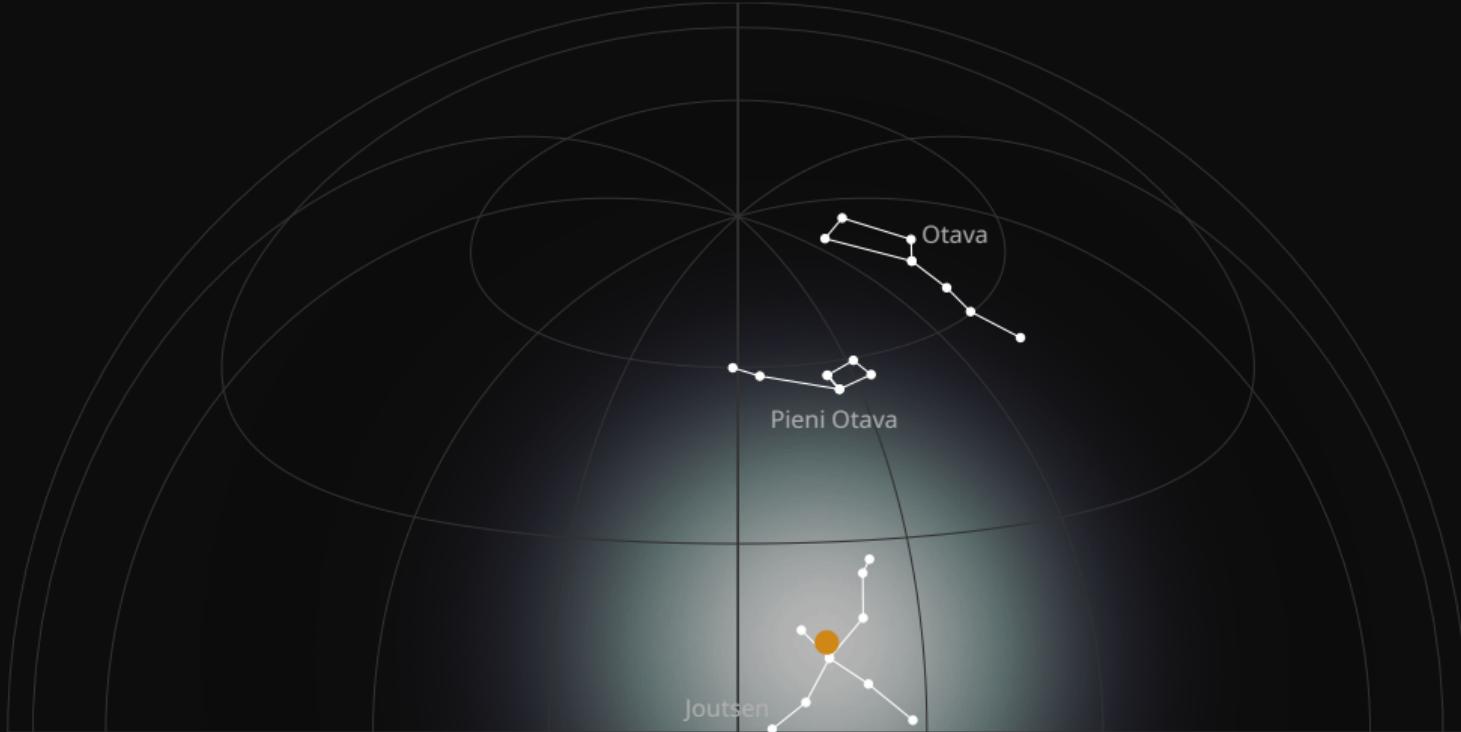
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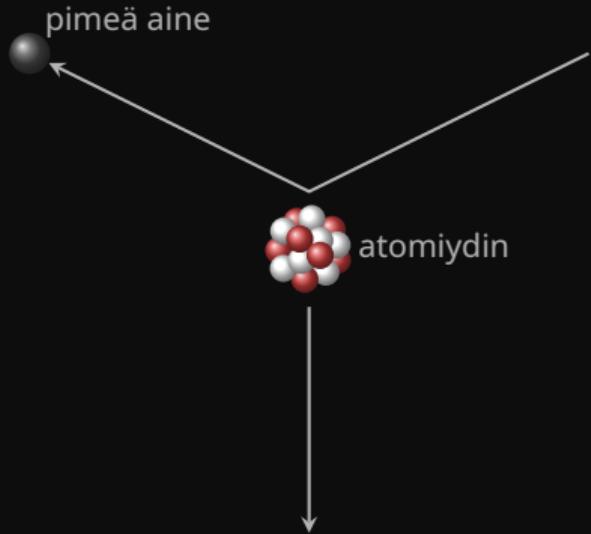
Pimeän aineen tuuli



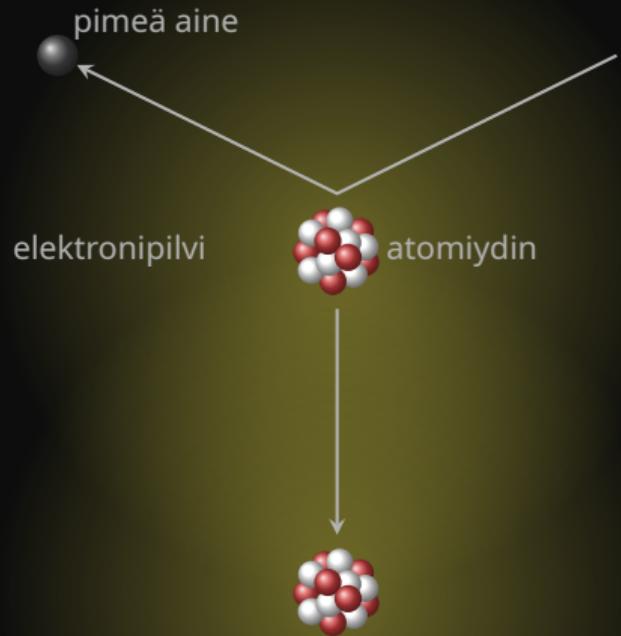
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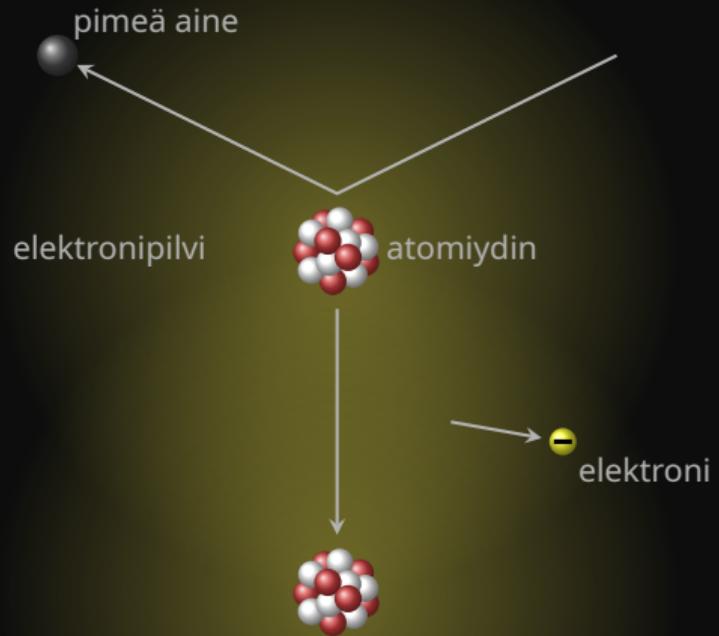
Pimeän aineen sironta



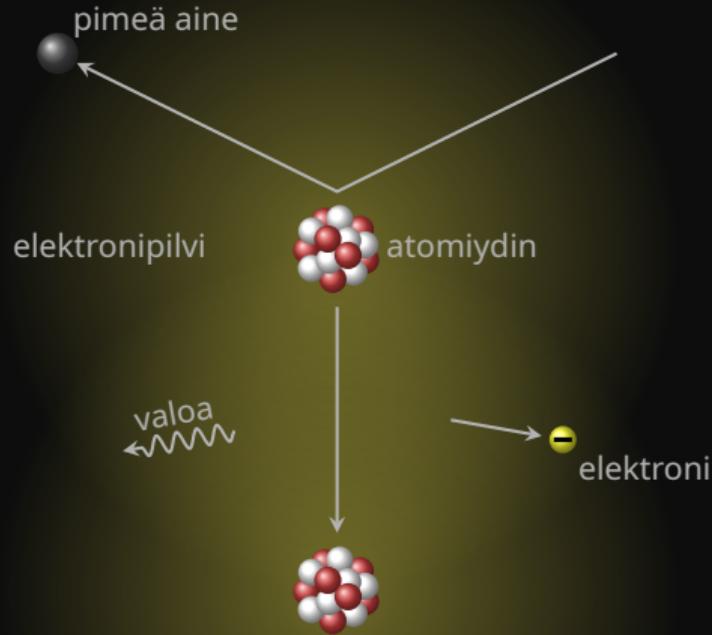
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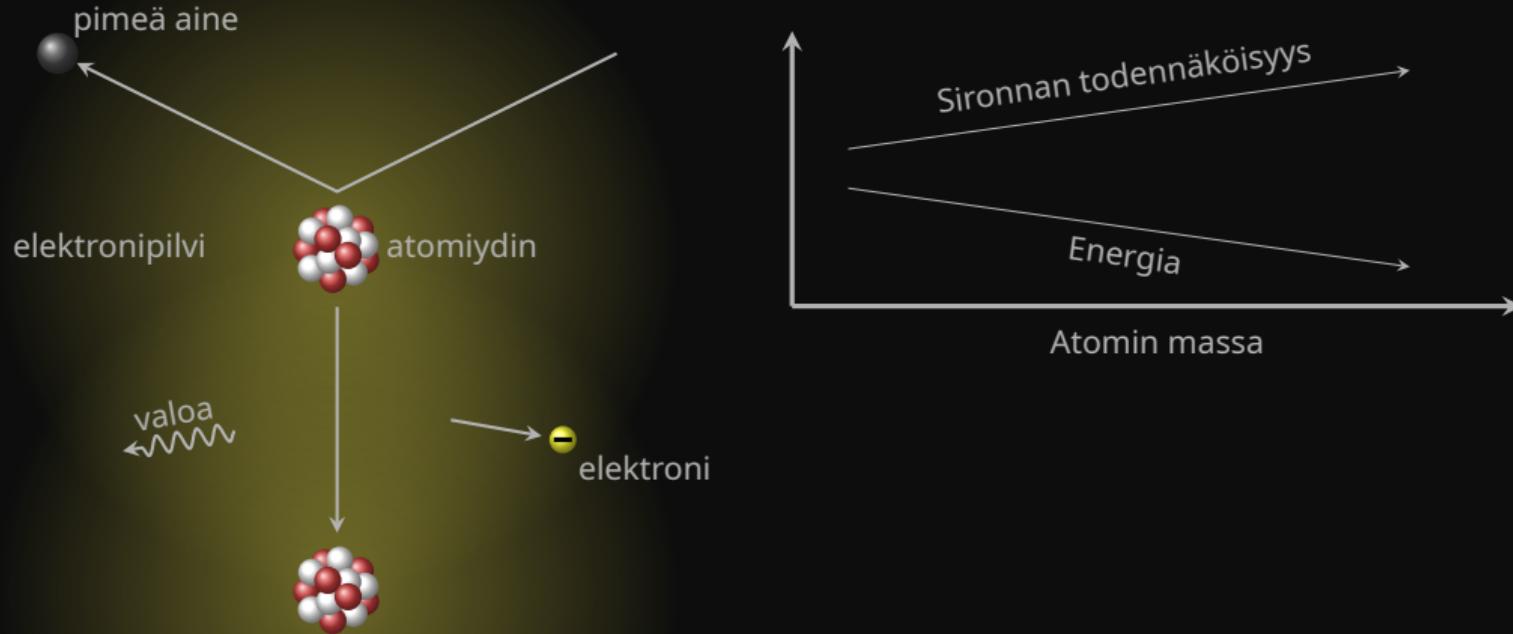
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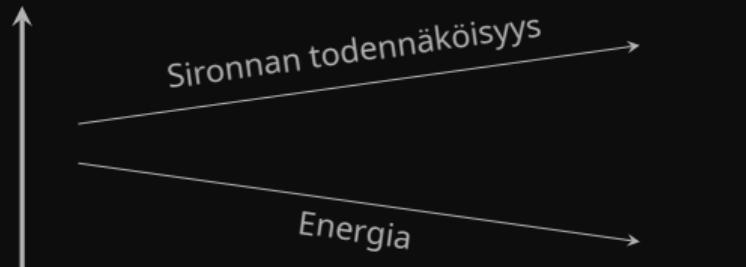
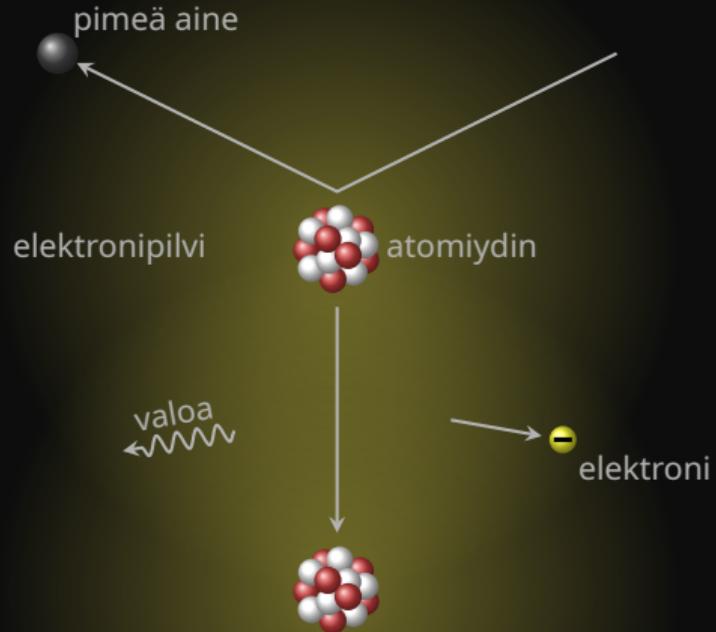
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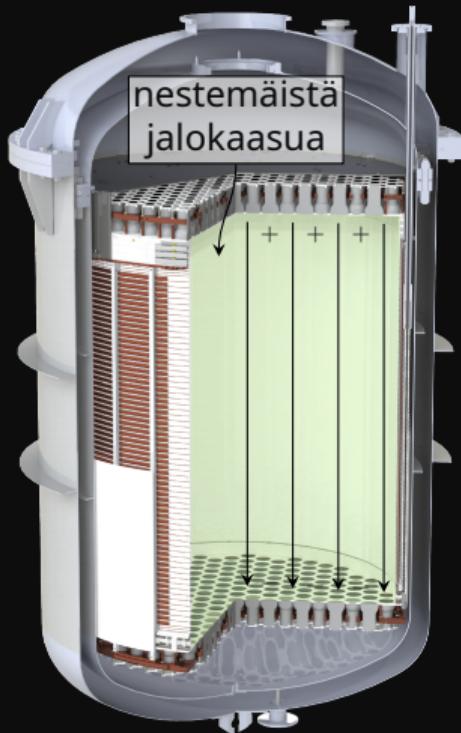
Pimeän aineen sironta



Pimeän aineen sironta

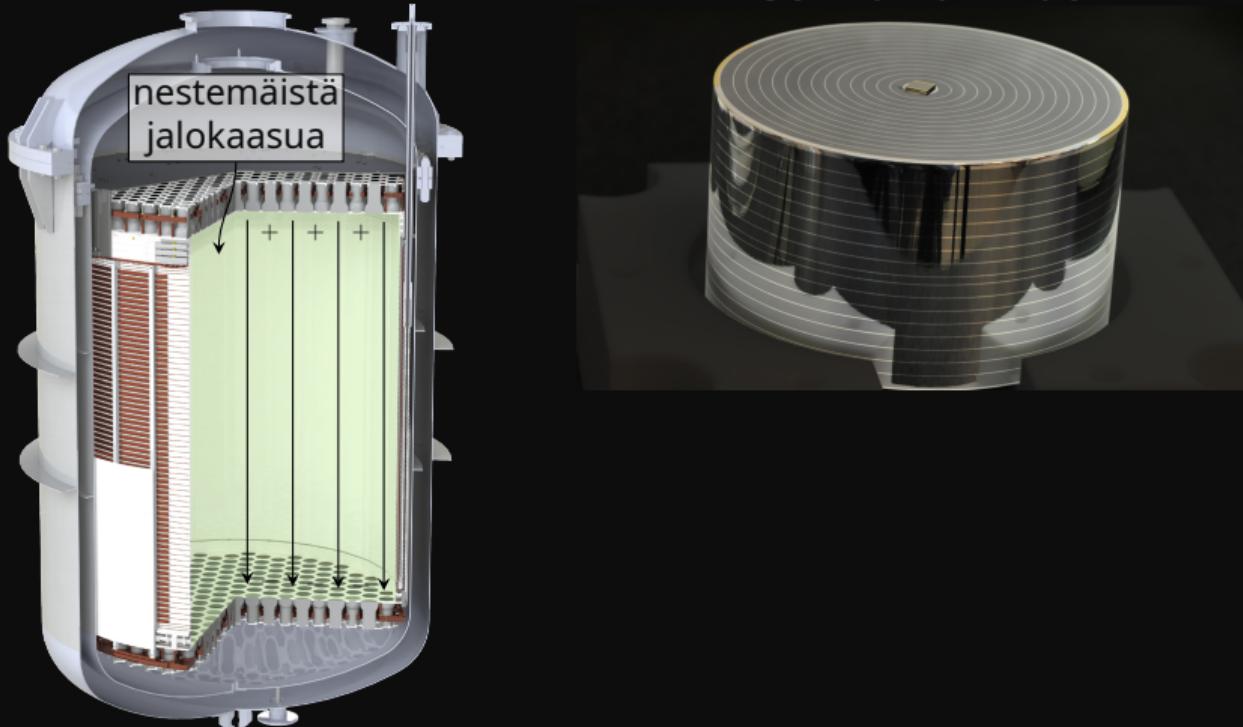


Pimeän aineen havaitseminen



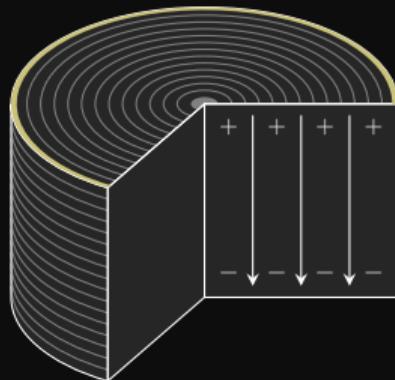
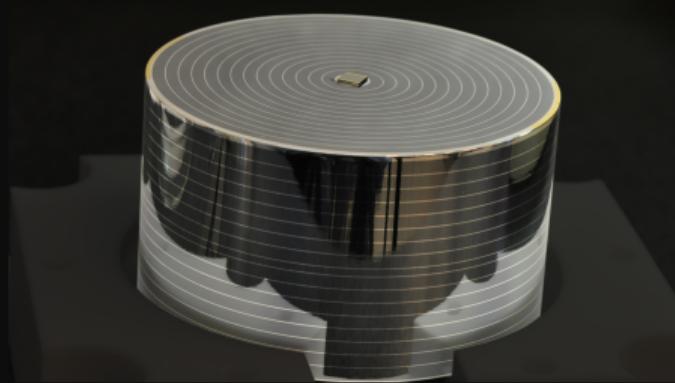
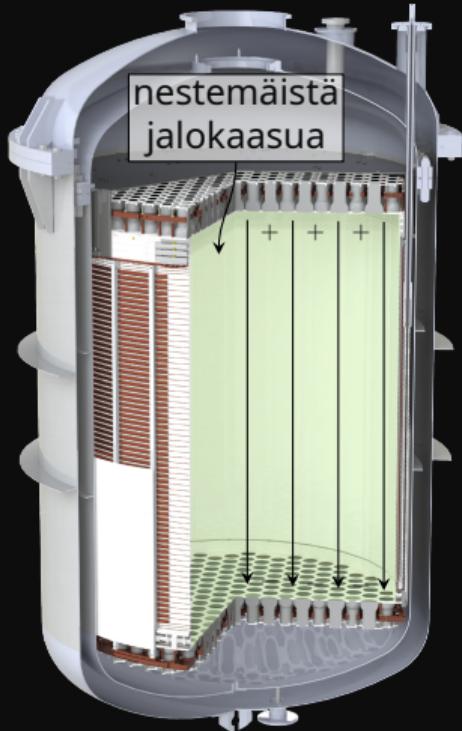
Pimeän aineen havaitseminen

Germaniumkide

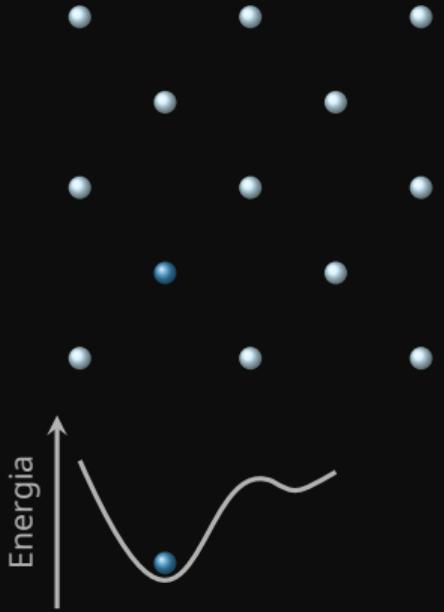


Pimeän aineen havaitseminen

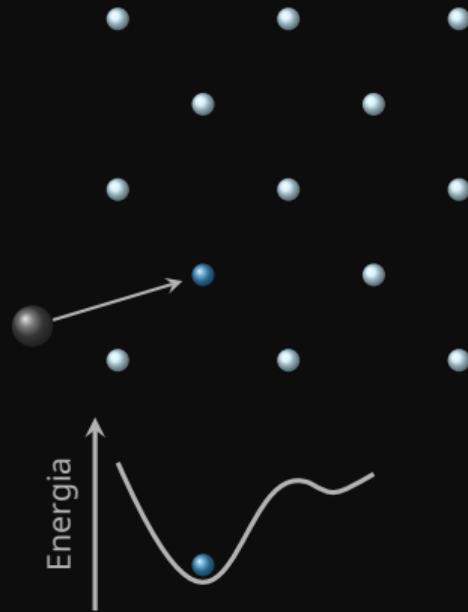
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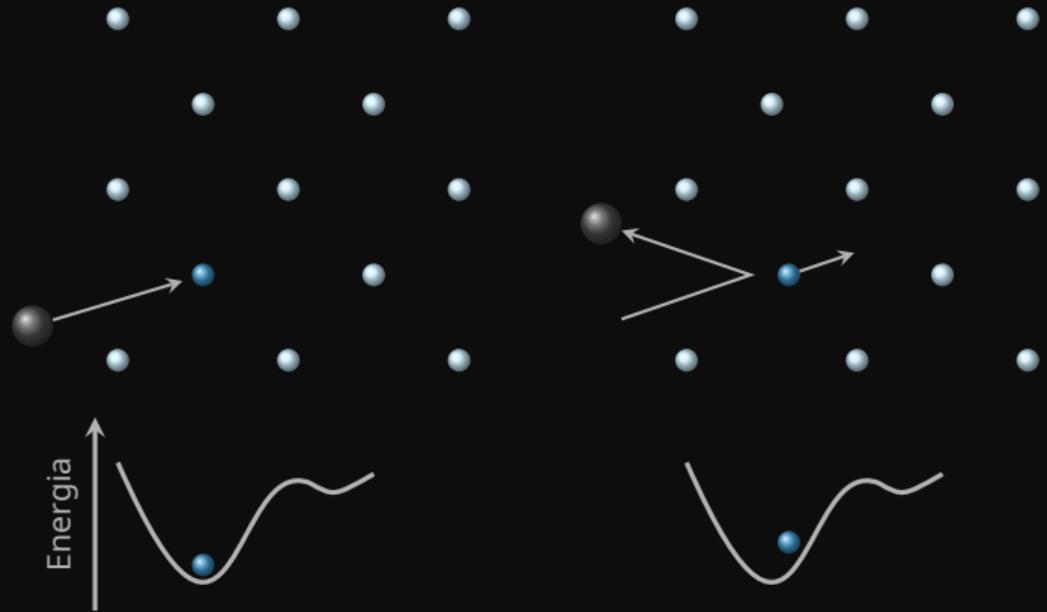
Kidevirheet



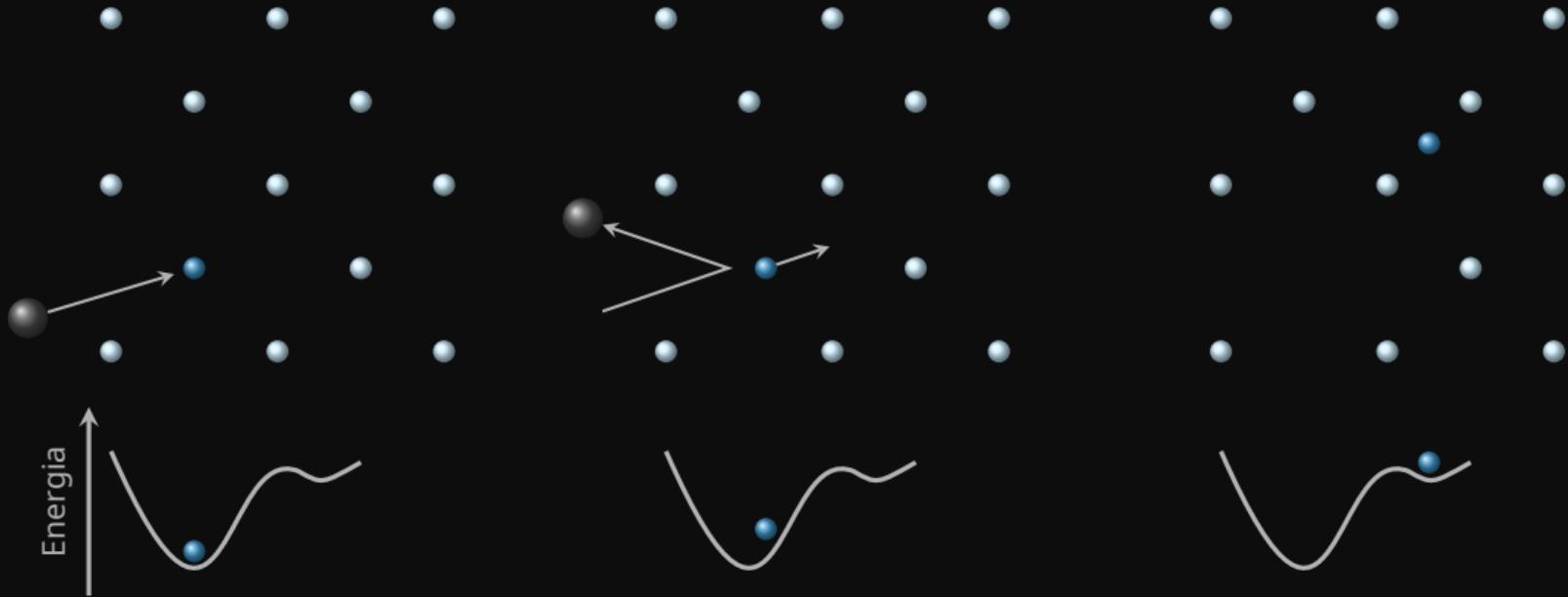
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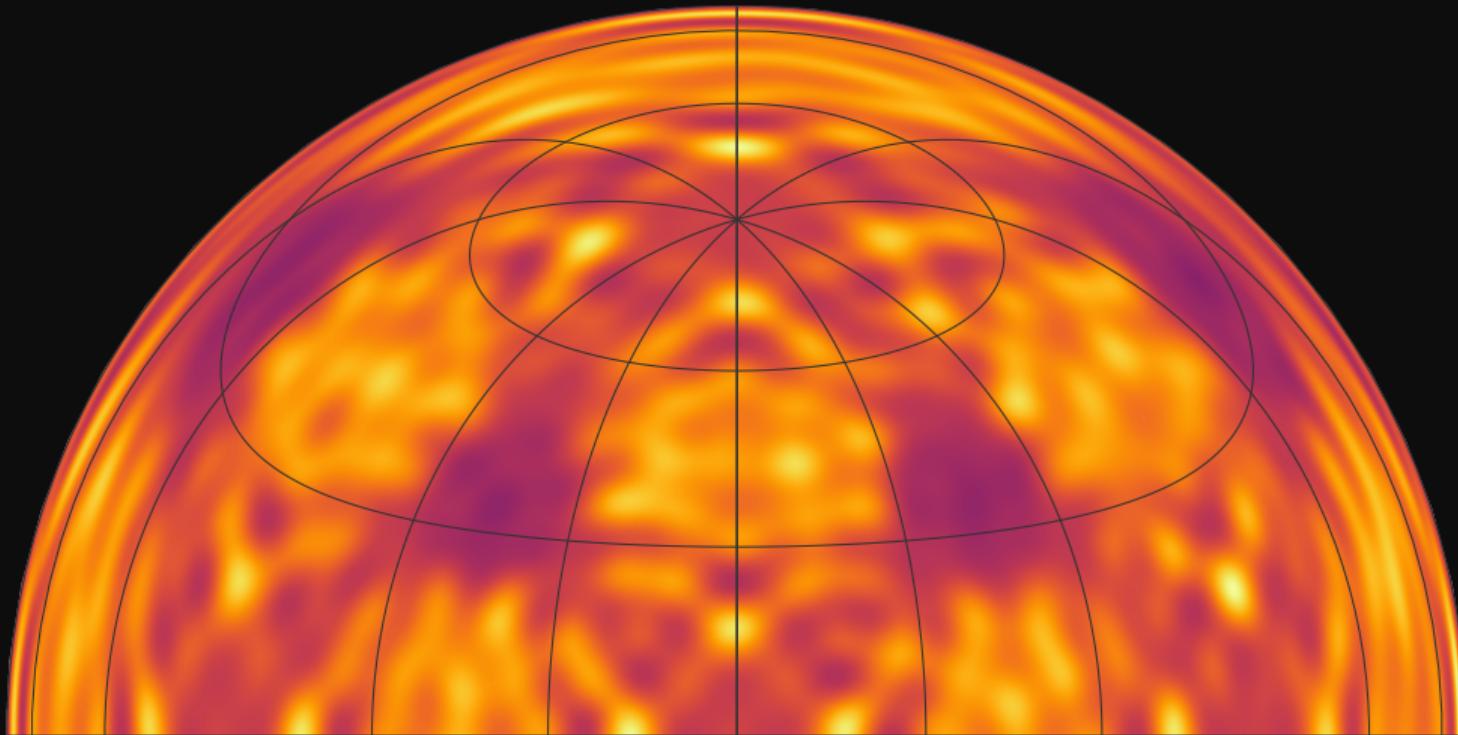
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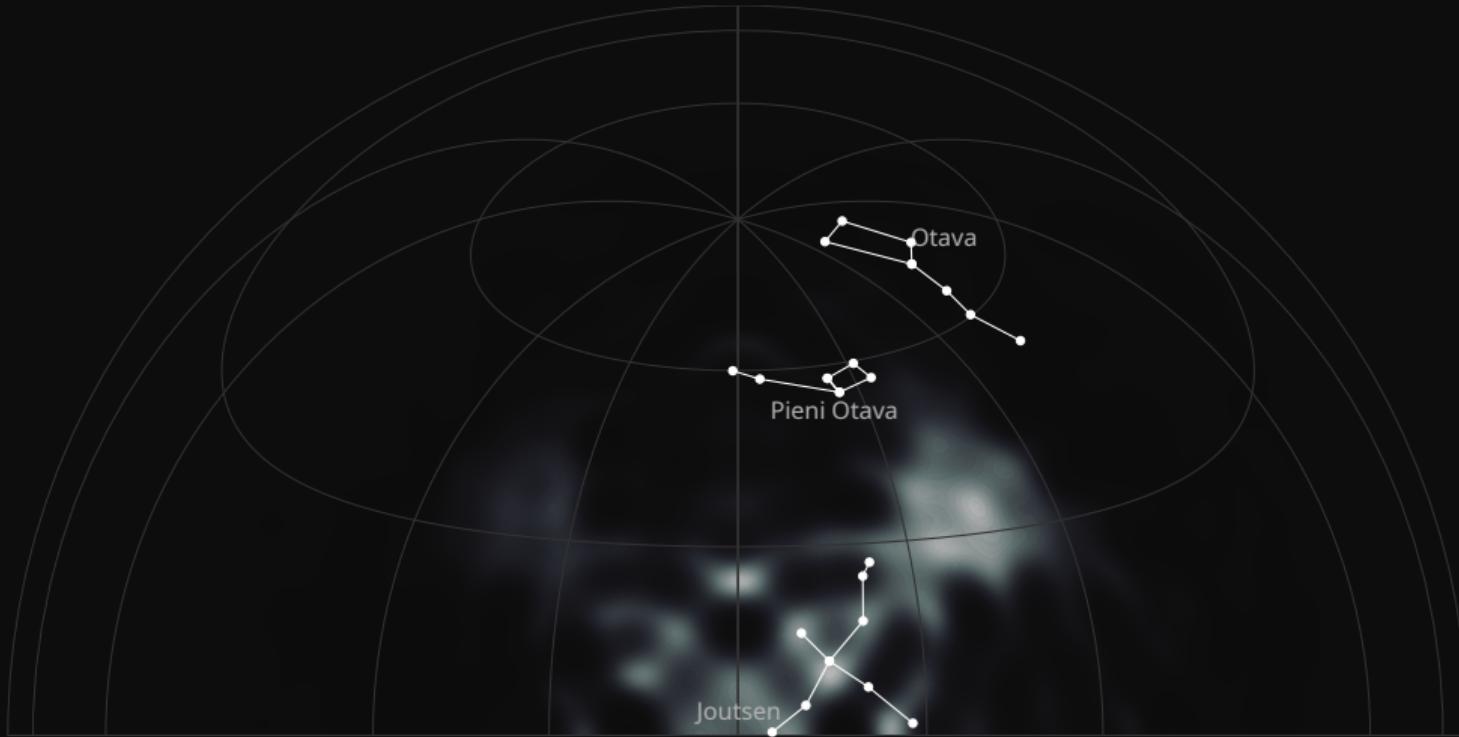
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Virhe-energian suuntariippuvuus



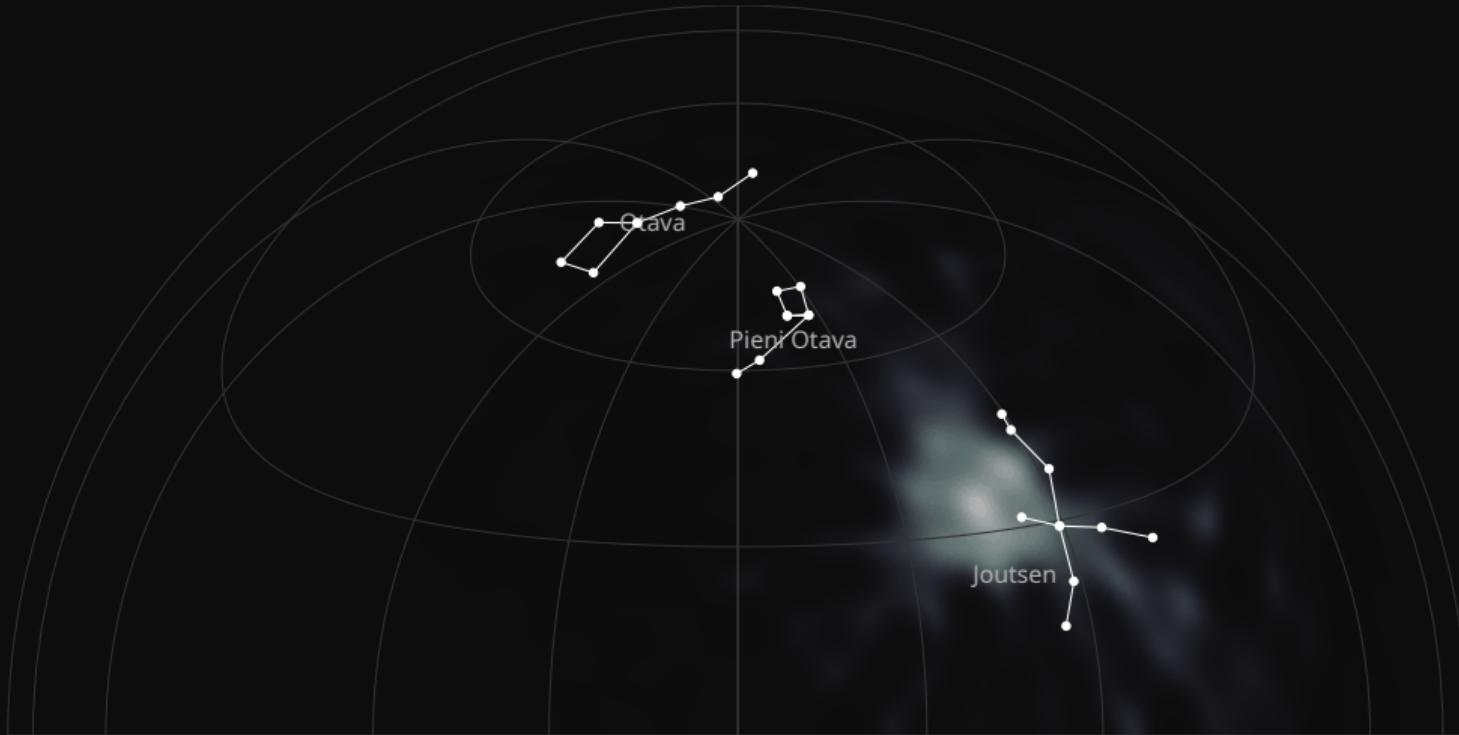
Pimeän aineen tuuli kiteessä



Pimeän aineen tuuli kiteessä



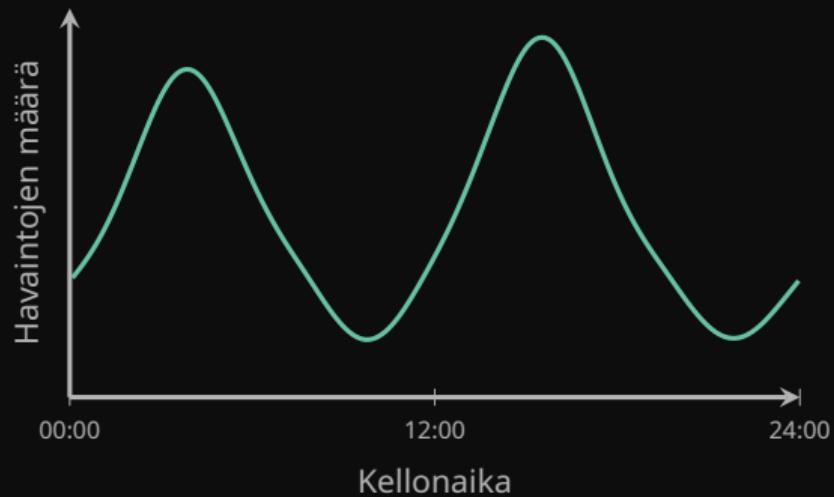
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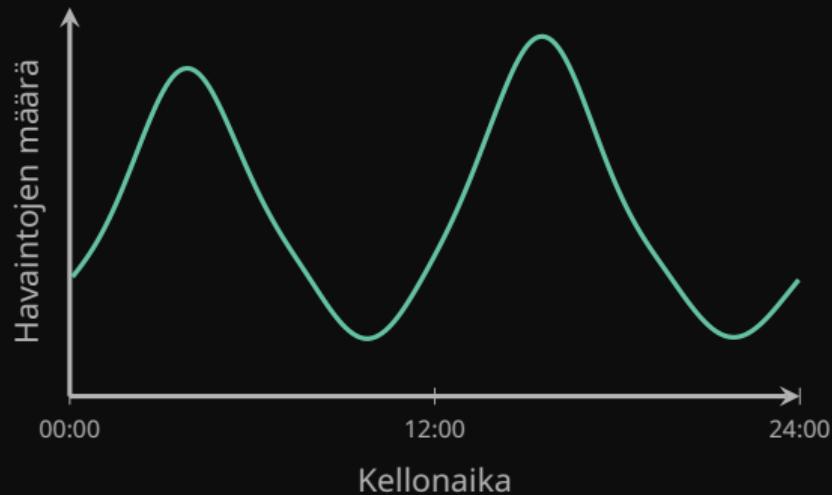
Pimeän aineen tuuli kiteessä



Päivittäinen vaihtelu

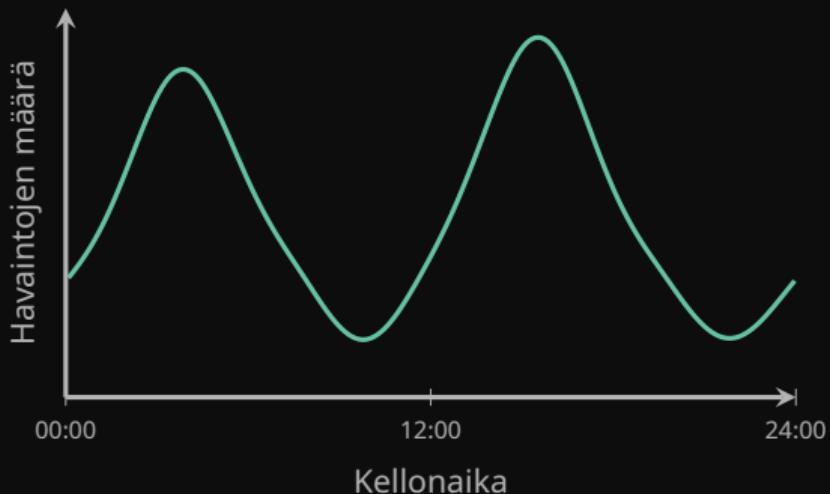


Päivittäinen vaihtelu



Avainkysymyksiä:

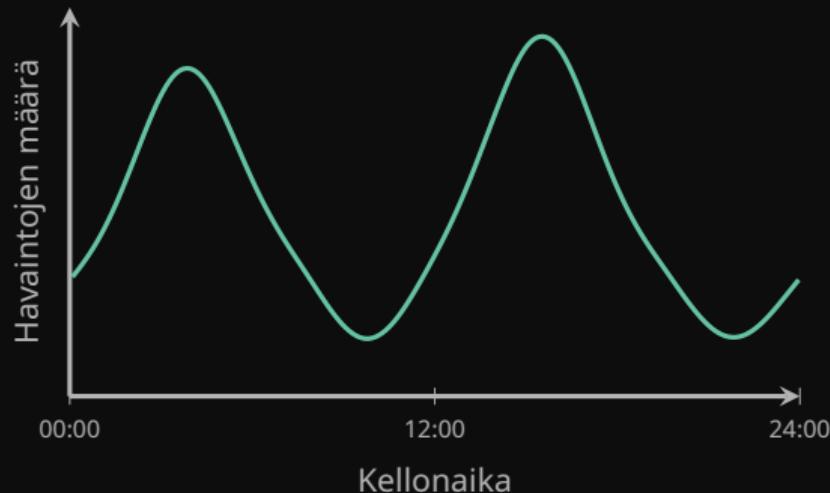
Päivittäinen vaihtelu



Avainkysymyksiä:

Mitä päivittäinen vaihtelu kertoo pimän aineen vuorovaikutuksista/jakaumasta?

Päivittäinen vaihtelu



Avainkysymyksiä:

Mitä päivittäinen vaihtelu kertoo pimän aineen vuorovaikutuksista/jakaumasta?

Auttaako päivittäinen vaihtelu pimeän aineen etsinnässä?