

Snellius

Synopsis

This page is the root entry point to technical and administrative documentation for (potential) users of the Dutch national supercomputer Snellius.

Snellius is the Dutch National supercomputer hosted at SURF. The system facilitates scientific research carried out in many Universities, independent research institutes, governmental organizations, and private companies in the Netherlands.

Snellius is a cluster of heterogeneous nodes built by Lenovo, containing predominantly AMD technology, with capabilities for high performance computing (parallel, symmetric multiprocessing), data-processing, and machine learning. The system also has several system-specific storage resources, that are geared towards supporting the various types of computing.

The system has a peak performance of 14 petaflop/s, making it the most powerful high-performance computing system in the Netherlands.

Snellius is accessible at the address:

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snellius.surf.nl
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A virtual 3D tour of the system can be found [here](#).



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Mathematician Willebrord Snel van Royen

Willebrord Snel van Royen (Leiden, 1580-1626, shown right), also known by his Latin name Snellius, was a Dutch mathematician and physicist, humanist, linguist and astronomer. He was professor of mathematics at Leiden University from 1613 until his death in 1626.

He is best known for Snell's law, named after him, which indicates how light rays are broken when light passes through different materials (e.g. from air to glass, as in the image to the right).

! Lisa Computing cluster no longer available

The Lisa Computing Cluster has moved to a computing cluster on Snellius from 1 July 2023. As a result, requesting computing time on Lisa is no longer possible. As a replacement, you can use calculation time on Snellius. For more info on the migration process check [Migration of Lisa users to Snellius](#).

Requesting this service is done via our helpdesk [service desk portal](#), or email at servicedesk@surf.nl or make an appointment with one of our advisors.